

(1) FOREIGN PRINT NO. 8 0 0 3 4		(2) REVISION 0 1 8		(4) PURCHASE ORDER NO COMM. (SUBT. NO.) 1 3 2 0 0 0 1		(5) JOB NUMBER 9 7 6 3 0 1 1	
(6) VENDOR DRAWING OR DOCUMENT NO. 4 2 2 - 8 5 1						(7) REV. NO. 0 0 3	
(8) SIZE B							
(9) DESCRIPTION LINE 1 SF6 GAS INSULATION SUBSTATION GAS SYSTEM LINE 2 SCHEMATIC							
(10) VENDOR'S NAME I - T - E							
(11) AR# / REQUESTOR ENGBS		(12) LOG-IN DATE 0 1 1 7 1 2		(15)		(13) ✓ CHECK	
				1 <input checked="" type="checkbox"/> APPROVED 2 <input type="checkbox"/> APPROVED, SUBMIT REVISED DOC.		ELEC.	
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(14)							
1/25/12		BAS		JM		—	
DATE		DESIGN		CHKD		CE	
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(17) FINAL DISTRIBUTION DATE		STATUS		(18)			
01121012		O					
(16) DESCRIPTION						Seabrook Station	

PARTIAL REISSUE

NOTE

Replace label and sheet 5 of 7.

SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 USC
SECTION 552(b)(4) AND 5 USC SECTION 552(b)(7)(F)

SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 USC SECTION 552(b)(4) AND 5
USC SECTION 552(b)(7)(F)

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5 USC SECTION 552(b)(7)(F)

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USC SECTION 552(b)(7)(F)

SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 USC SECTION 552(b)(4)
AND 5 USC SECTION 552(b)(7)(F)

GAS ZONE	GAS COMPARTMENT	VALVE A	VALVE AA	VALVE B	VALVE C	VALVE D	VALVE E	VALVE F	VALVE G	VALVE H	VALVE I	PRESS SW 1	PRESS SW 2	PRESS SW 3	PRESS INDICATOR
GS120	GS120 PHASE A	1-SY-V-8528		1-SY-V-8529	1-SY-V-8530	1-SY-V-8531	1-SY-V-8532	1-SY-V-8533	1-SY-V-8534			1-SY-PS-GS120-A-1	1-SY-PS-GS120-A-2		1-SY-PI-GS120-A
	GS120 PHASE B	1-SY-V-8620		1-SY-V-8621	1-SY-V-8622	1-SY-V-8623	1-SY-V-8624	1-SY-V-8625	1-SY-V-8626			1-SY-PS-GS120-B-1	1-SY-PS-GS120-B-2		1-SY-PI-GS120-B
	GS120 PHASE C	1-SY-V-8712		1-SY-V-8713	1-SY-V-8714	1-SY-V-8715	1-SY-V-8716	1-SY-V-8717	1-SY-V-8718			1-SY-PS-GS120-C-1	1-SY-PS-GS120-C-2		1-SY-PI-GS120-C
GS24	GS24 PHASE A	1-SY-V-8535								1-SY-V-8536				1-SY-PS-GS24-A	
	GS24 PHASE B	1-SY-V-8627								1-SY-V-8628				1-SY-PS-GS24-B	
	GS24 PHASE C	1-SY-V-8719								1-SY-V-8720				1-SY-PS-GS24-C	
GS22	GS22 PHASE A	1-SY-V-8537								1-SY-V-8538				1-SY-PS-GS22-A	
	GS22 PHASE B	1-SY-V-8629								1-SY-V-8630				1-SY-PS-GS22-B	
	GS22 PHASE C	1-SY-V-8721								1-SY-V-8722				1-SY-PS-GS22-C	
GS23	GS23 PHASE A	1-SY-V-8539								1-SY-V-8540				1-SY-PS-GS23-A	
	GS23 PHASE B	1-SY-V-8631								1-SY-V-8632				1-SY-PS-GS23-B	
	GS23 PHASE C	1-SY-V-8723								1-SY-V-8724				1-SY-PS-GS23-C	
GS21	GS21 PHASE A	1-SY-V-8541								1-SY-V-8542				1-SY-PS-GS21-A	
	GS21 PHASE B	1-SY-V-8633								1-SY-V-8634				1-SY-PS-GS21-B	
	GS21 PHASE C	1-SY-V-8725								1-SY-V-8726				1-SY-PS-GS21-C	
GS520	GS520 PHASE A	1-SY-V-8543		1-SY-V-8544	1-SY-V-8545	1-SY-V-8546	1-SY-V-8547	1-SY-V-8548	1-SY-V-8549			1-SY-PS-GS520-A-1	1-SY-PS-GS520-A-2		1-SY-PI-GS520-A
	GS520 PHASE B	1-SY-V-8635		1-SY-V-8636	1-SY-V-8637	1-SY-V-8638	1-SY-V-8639	1-SY-V-8640	1-SY-V-8641			1-SY-PS-GS520-B-1	1-SY-PS-GS520-B-2		1-SY-PI-GS520-B
	GS520 PHASE C	1-SY-V-8727		1-SY-V-8728	1-SY-V-8729	1-SY-V-8730	1-SY-V-8731	1-SY-V-8732	1-SY-V-8733			1-SY-PS-GS520-C-1	1-SY-PS-GS520-C-2		1-SY-PI-GS520-C
GS81	GS81 PHASE A	1-SY-V-8550								1-SY-V-8551				1-SY-PS-GS81-A	
	GS81 PHASE B	1-SY-V-8642								1-SY-V-8643				1-SY-PS-GS81-B	
	GS81 PHASE C	1-SY-V-8734								1-SY-V-8735				1-SY-PS-GS81-C	
GS8	GS8 PHASE A	1-SY-V-8552								1-SY-V-8553				1-SY-PS-GS8-A	
	GS8 PHASE B	1-SY-V-8644								1-SY-V-8645				1-SY-PS-GS8-B	
	GS8 PHASE C	1-SY-V-8736								1-SY-V-8737				1-SY-PS-GS8-C	
GS80	GS80 PHASE A	1-SY-V-8554		1-SY-V-8804						1-SY-V-8555	1-SY-V-8805			1-SY-PS-GS80-A	
	GS80 PHASE B	1-SY-V-8646		1-SY-V-8806						1-SY-V-8647	1-SY-V-8807			1-SY-PS-GS80-B	
	GS80 PHASE C	1-SY-V-8738		1-SY-V-8808						1-SY-V-8739	1-SY-V-8809			1-SY-PS-GS80-C	
GS83	GS83 PHASE A	1-SY-V-8556								1-SY-V-8557				1-SY-PS-GS83-A	
	GS83 PHASE B	1-SY-V-8648								1-SY-V-8649				1-SY-PS-GS83-B	
	GS83 PHASE C	1-SY-V-8740								1-SY-V-8741				1-SY-PS-GS83-C	
GS82	GS82 PHASE A	1-SY-V-8558								1-SY-V-8559				1-SY-PS-GS82-A	
	GS82 PHASE B	1-SY-V-8650								1-SY-V-8651				1-SY-PS-GS82-B	
	GS82 PHASE C	1-SY-V-8742								1-SY-V-8743				1-SY-PS-GS82-C	
GS695	GS695 PHASE A	1-SY-V-8560		1-SY-V-8561	1-SY-V-8562	1-SY-V-8563	1-SY-V-8564	1-SY-V-8565	1-SY-V-8566			1-SY-PS-GS695-A-1	1-SY-PS-GS695-A-2		1-SY-PI-GS695-A
	GS695 PHASE B	1-SY-V-8652		1-SY-V-8653	1-SY-V-8654	1-SY-V-8655	1-SY-V-8656	1-SY-V-8657	1-SY-V-8658			1-SY-PS-GS695-B-1	1-SY-PS-GS695-B-2		1-SY-PI-GS695-B
	GS695 PHASE C	1-SY-V-8744		1-SY-V-8745	1-SY-V-8746	1-SY-V-8747	1-SY-V-8748	1-SY-V-8749	1-SY-V-8750			1-SY-PS-GS695-C-1	1-SY-PS-GS695-C-2		1-SY-PI-GS695-C
GS73	GS73 PHASE A	1-SY-V-8567								1-SY-V-8568				1-SY-PS-GS73-A	
	GS73 PHASE B	1-SY-V-8659								1-SY-V-8660				1-SY-PS-GS73-B	
	GS73 PHASE C	1-SY-V-8751								1-SY-V-8752				1-SY-PS-GS73-C	
GS72	GS72 PHASE A	1-SY-V-8569								1-SY-V-8570				1-SY-PS-GS72-A	
	GS72 PHASE B	1-SY-V-8661								1-SY-V-8662				1-SY-PS-GS72-B	
	GS72 PHASE C	1-SY-V-8753								1-SY-V-8754				1-SY-PS-GS72-C	
GS70	GS70 PHASE A	1-SY-V-8571		1-SY-V-8810						1-SY-V-8572	1-SY-V-8811			1-SY-PS-GS70-A	
	GS70 PHASE B	1-SY-V-8663		1-SY-V-8812						1-SY-V-8664	1-SY-V-8813			1-SY-PS-GS70-B	
	GS70 PHASE C	1-SY-V-8755		1-SY-V-8814						1-SY-V-8756	1-SY-V-8815			1-SY-PS-GS70-C	
GS71	GS71 PHASE A	1-SY-V-8573								1-SY-V-8574				1-SY-PS-GS71-A	
	GS71 PHASE B	1-SY-V-8665								1-SY-V-8666				1-SY-PS-GS71-B	
	GS71 PHASE C	1-SY-V-8757								1-SY-V-8758				1-SY-PS-GS71-C	
GS74	GS74 PHASE A	1-SY-V-8575								1-SY-V-8576				1-SY-PS-GS74-A	
	GS74 PHASE B	1-SY-V-8667								1-SY-V-8668				1-SY-PS-GS74-B	
	GS74 PHASE C	1-SY-V-8759								1-SY-V-8760				1-SY-PS-GS74-C	
GS169	GS169 PHASE A	1-SY-V-8577		1-SY-V-8578	1-SY-V-8579	1-SY-V-8580	1-SY-V-8581	1-SY-V-8582	1-SY-V-8583			1-SY-PS-GS169-A-1	1-SY-PS-GS169-A-2		1-SY-PI-GS169-A
	GS169 PHASE B	1-SY-V-8669		1-SY-V-8670	1-SY-V-8671	1-SY-V-8672	1-SY-V-8673	1-SY-V-8674	1-SY-V-8675			1-SY-PS-GS169-B-1	1-SY-PS-GS169-B-2		1-SY-PI-GS169-B
	GS169 PHASE C	1-SY-V-8761		1-SY-V-8762	1-SY-V-8763	1-SY-V-8764	1-SY-V-8765	1-SY-V-8766	1-SY-V-8767			1-SY-PS-GS169-C-1	1-SY-PS-GS169-C-2		1-SY-PI-GS169-C
GS54	GS54 PHASE A	1-SY-V-8584								1-SY-V-8585				1-SY-PS-GS54-A	
	GS54 PHASE B	1-SY-V-8676								1-SY-V-8677				1-SY-PS-GS54-B	
	GS54 PHASE C	1-SY-V-8768								1-SY-V-8769				1-SY-PS-GS54-C	
GS52	GS52 PHASE A	1-SY-V-8822													
	GS52 PHASE B	1-SY-V-8823													
	GS52 PHASE C	1-SY-V-8824													
GS51	GS51 PHASE A	1-SY-V-8586								1-SY-V-8587				1-SY-PS-GS52-A	
	GS51 PHASE B	1-SY-V-8678								1-SY-V-8679				1-SY-PS-GS52-B	
	GS51 PHASE C	1-SY-V-8770								1-SY-V-8771				1-SY-PS-GS52-C	
GS53	GS53 PHASE A	1-SY-V-8588								1-SY-V-8589				1-SY-PS-GS51-A	
	GS53 PHASE B	1-SY-V-8680								1-SY-V-8681				1-SY-PS-GS51-B	
	GS53 PHASE C	1-SY-V-8772								1-SY-V-8773				1-SY-PS-GS51-C	
GS55	GS55 PHASE A	1-SY-V-8590								1-SY-V-8591				1-SY-PS-GS53-A	
	GS55 PHASE B	1-SY-V-8682								1-SY-V-8683				1-SY-PS-GS53-B	
	GS55 PHASE C	1-SY-V-8774								1-SY-V-8775				1-SY-PS-GS53-C	
GS110	GS110 PHASE A	1-SY-V-8592		1-SY-V-8593	1-SY-V-8594	1-SY-V-8595	1-SY-V-8596	1-SY-V-8597	1-SY-V-8598			1-SY-PS-GS110-A-1	1-SY-PS-GS110-A-2		1-SY-PI-GS110-A
	GS110 PHASE B	1-SY-V-8684		1-SY-V-8685	1-SY-V-8686	1-SY-V-8687	1-SY-V-8688	1-SY-V-8689	1-SY-V-8690			1-SY-PS-GS110-B-1	1-SY-PS-GS110-B-2		1-SY-PI-GS110-B
	GS110 PHASE C	1-SY-V-8776		1-SY-V-8777	1-SY-V-8778	1-SY-V-8779	1-SY-V-8780	1-SY-V-8781	1-SY-V-8782			1-SY-PS-GS110-C-1	1-SY-PS-GS110-C-2		1-SY-PI-GS110-C
GS95	GS95 PHASE A	1-SY-V-8599								1-SY-V-8600				1-SY-PS-GS95-A	
	GS95 PHASE B	1-SY-V-8691								1-SY-V-8692				1-SY-PS-GS95-B	
	GS95 PHASE C	1-SY-V-8783								1-SY-V-8784				1-SY-PI-GS95-B	
GS93	GS93 PHASE A	1-SY-V-8601								1-SY-V-8602				1-SY-PS-GS93-A	
	GS93 PHASE B	1-SY-V-8693								1-SY-V-8694				1-SY-PS-GS93-B	
	GS93 PHASE C	1-SY-V-8785								1-SY-V-8786				1-SY-PS-GS93-C	
GS91	GS91 PHASE A	1													

GAS ZONE	GAS COMPARTMENT	VALVE A	VALVE AA	VALVE B	VALVE C	VALVE D	VALVE E	VALVE F	VALVE G	VALVE H	VALVE I	PRESS SW 1	PRESS SW 2	PRESS SW 3	PRESS INDICATOR
GS42	GS42 PHASE A	1-SY-V-8447								1-SY-V-8840				1-SY-PS-GS42-A	1-SY-PI-GS42-A
	GS42 PHASE B	1-SY-V-8452								1-SY-V-8841				1-SY-PS-GS42-B	1-SY-PI-GS42-B
	GS42 PHASE C	1-SY-V-8457								1-SY-V-8842				1-SY-PS-GS42-C	1-SY-PI-GS42-C
GS87	GS87 PHASE A	1-SY-V-8426													1-SY-PI-GS87-A
	GS87 PHASE B	1-SY-V-8429													1-SY-PI-GS87-B
	GS87 PHASE C	1-SY-V-8432													1-SY-PI-GS87-C
GS90	GS90 PHASE A	1-SY-V-8435													1-SY-PI-GS90-A
	GS90 PHASE B	1-SY-V-8439													1-SY-PI-GS90-B
	GS90 PHASE C	1-SY-V-8443													1-SY-PI-GS90-C

GAS SYSTEM SCHEMATIC
345KV (1050 KV BIL) SF6
SEABROOK STATION
PUBLIC SERVICE CO OF NEW HAMPSHIRE
UNITED ENGINEERS & CONSTRUCTORS INC.



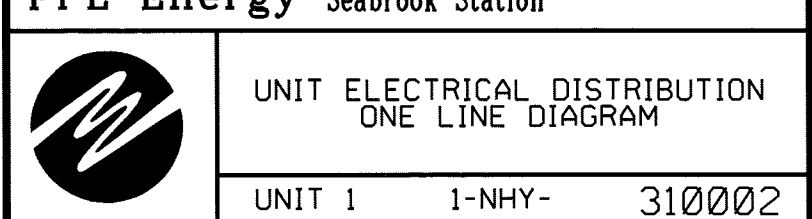
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CORPORATION

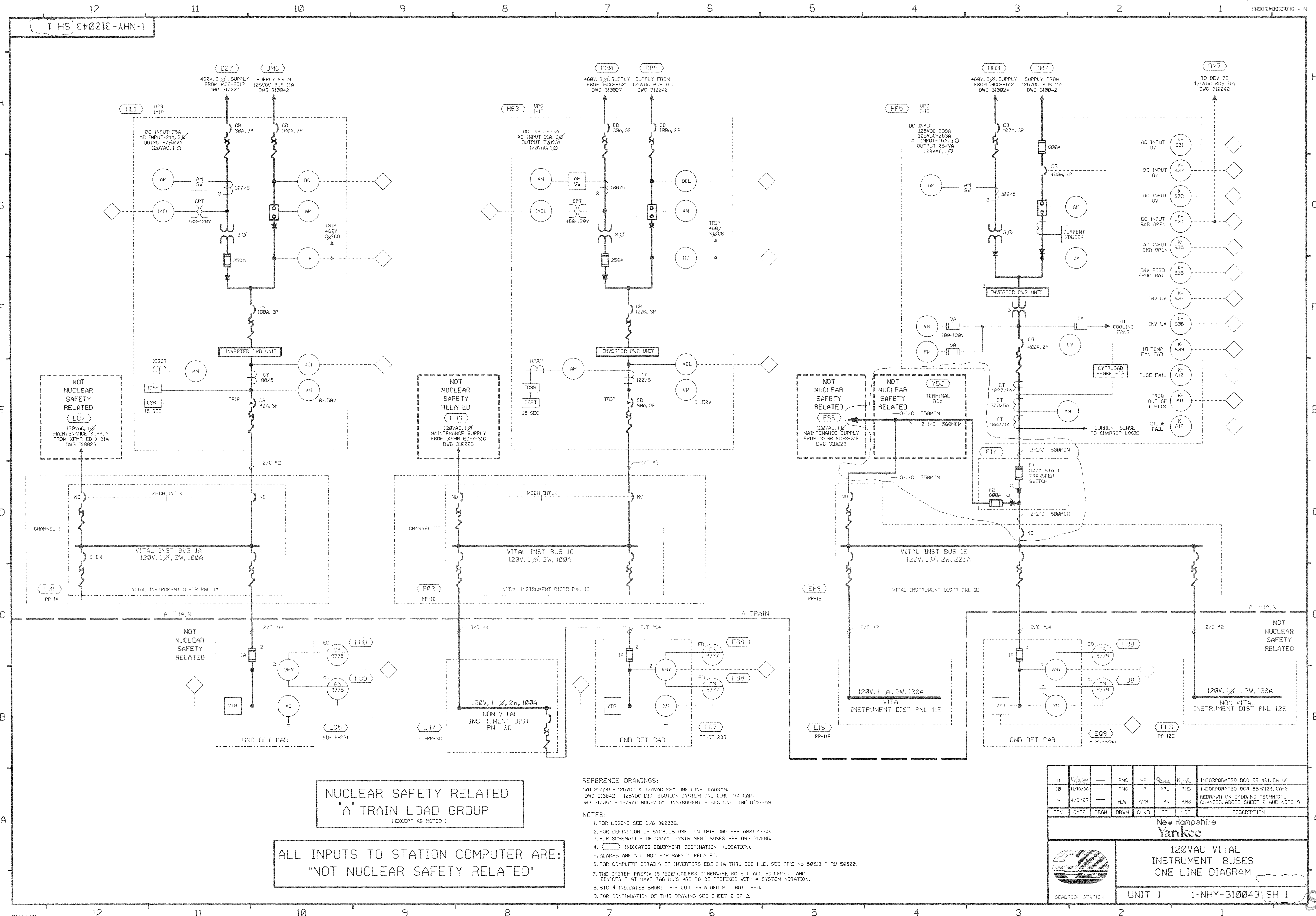
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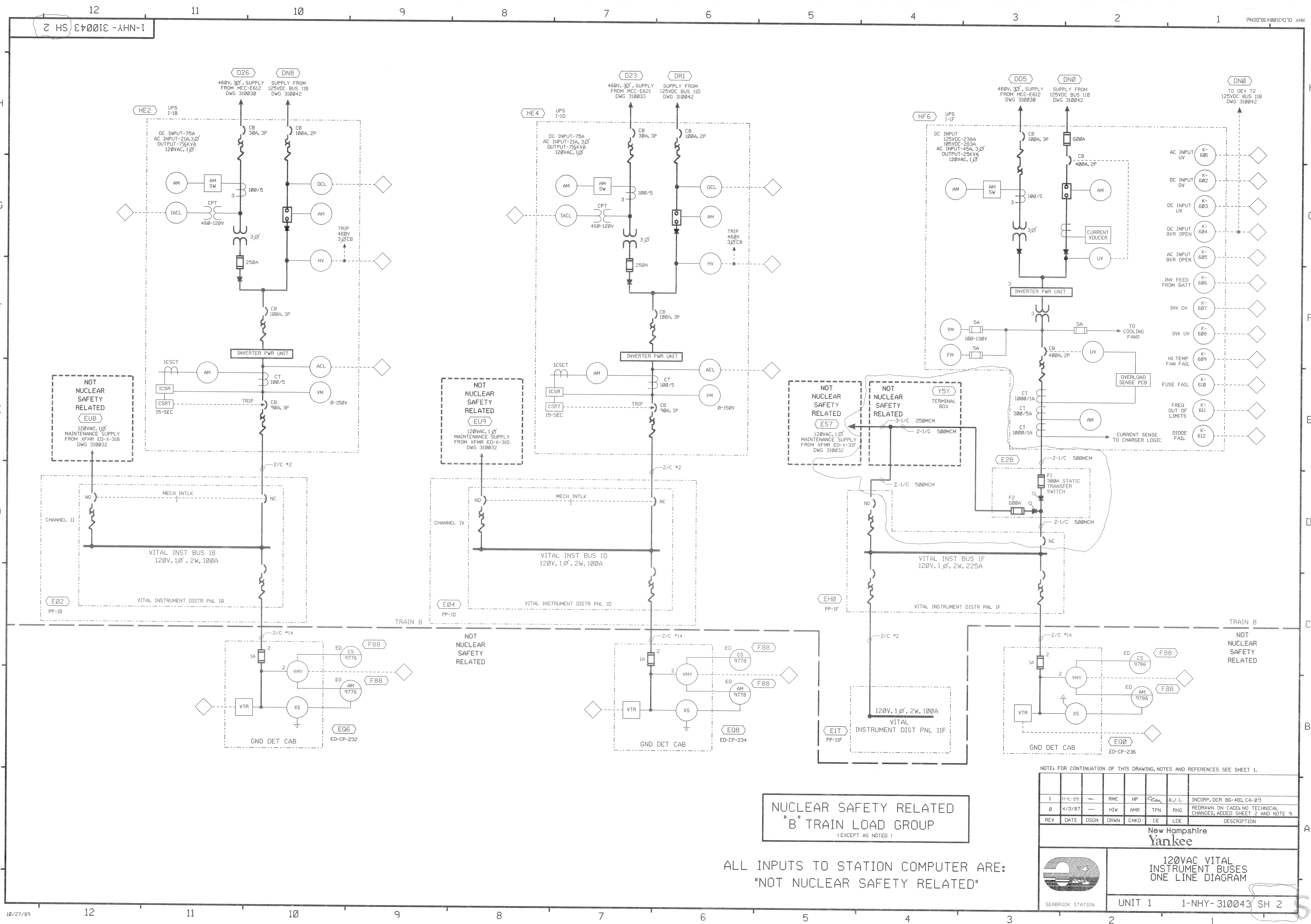
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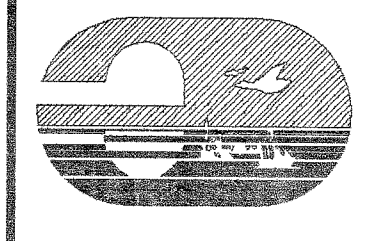


NUCLEAR SAFETY RELATED
"B" TRAIN LOAD GROUP
(EXCEPT AS NOTED)

ALL INPUTS TO STATION COMPUTER ARE:
"NOT NUCLEAR SAFETY RELATED"

NOTE: FOR CONTINUATION OF THIS DRAWING, NOTES AND REFERENCES SEE SHEET 1.

1	11/10/89	—	RMG	HP	Cam	K.J.L.	INCORP. DCR B6-481, CA-09
0	4/3/87	—	HIW	AMR	TPN	RHG	REDRAWN ON CADD; NO TECHNICAL CHANGES, ADDED SHEET 2 AND NOTE 9
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

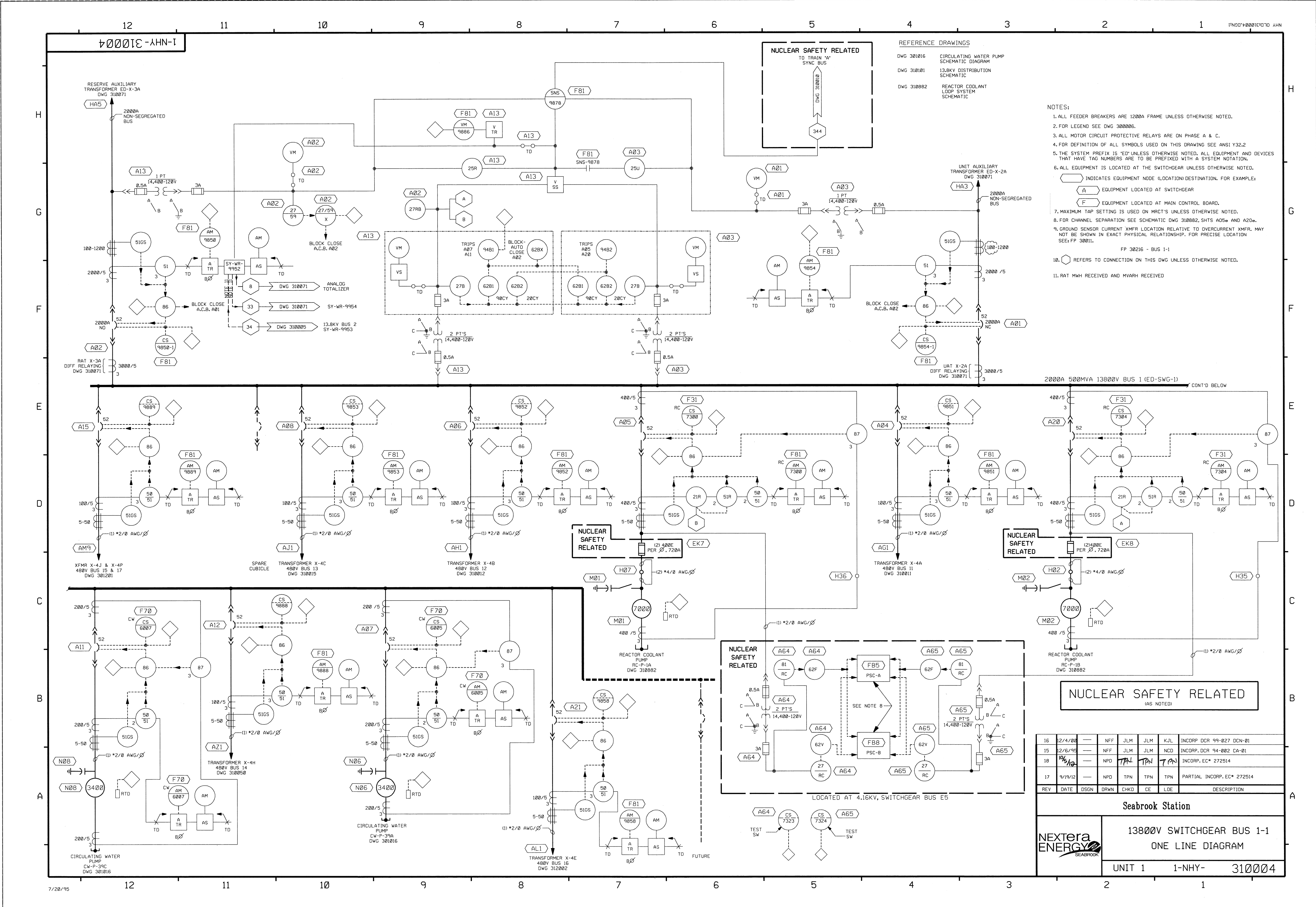


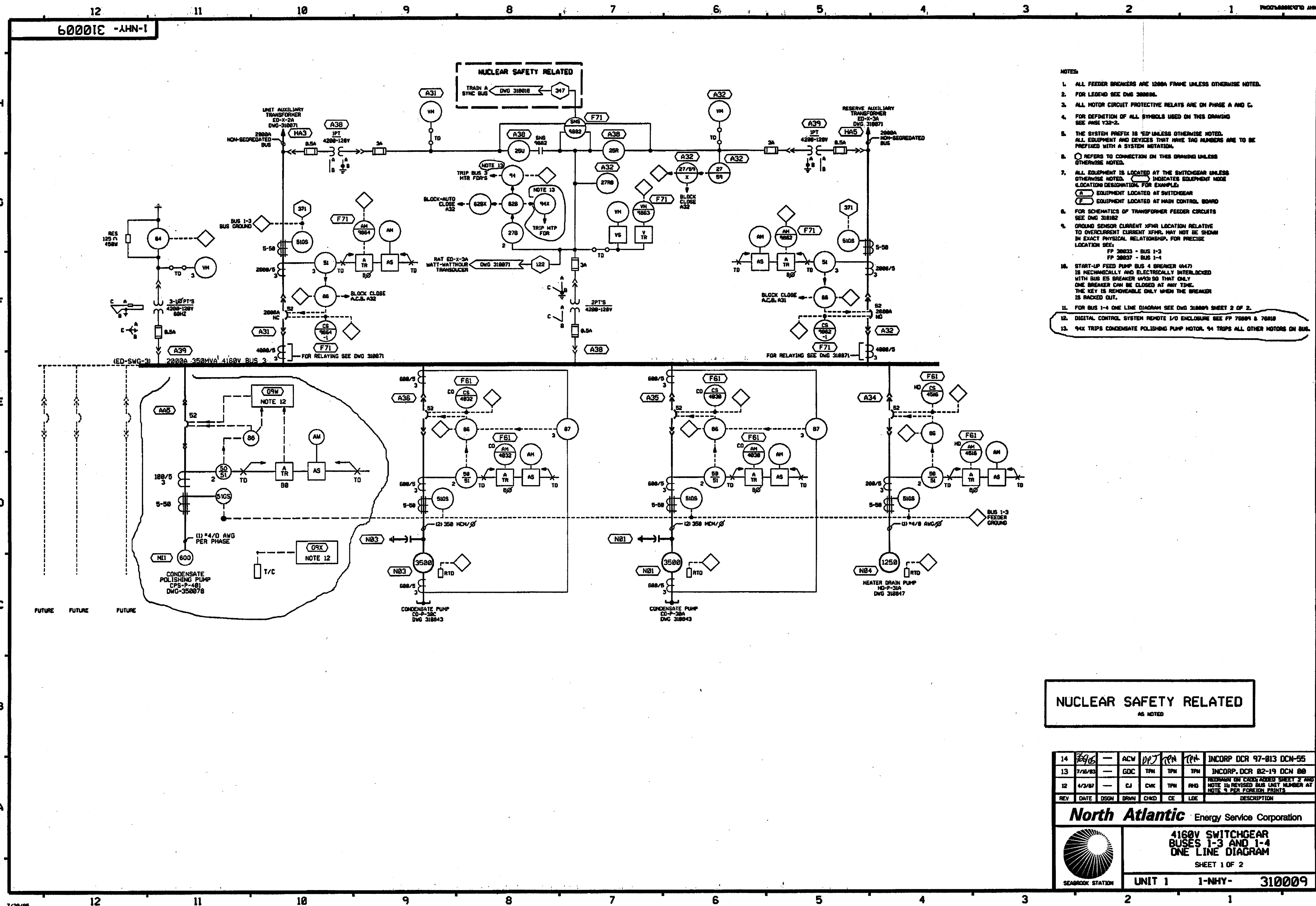
SEABROOK STATION

New Hampshire
Yankee

120VAC VITAL
INSTRUMENT BUSES
ONE LINE DIAGRAM


UNIT 1 1-NHY-310043 SH 2

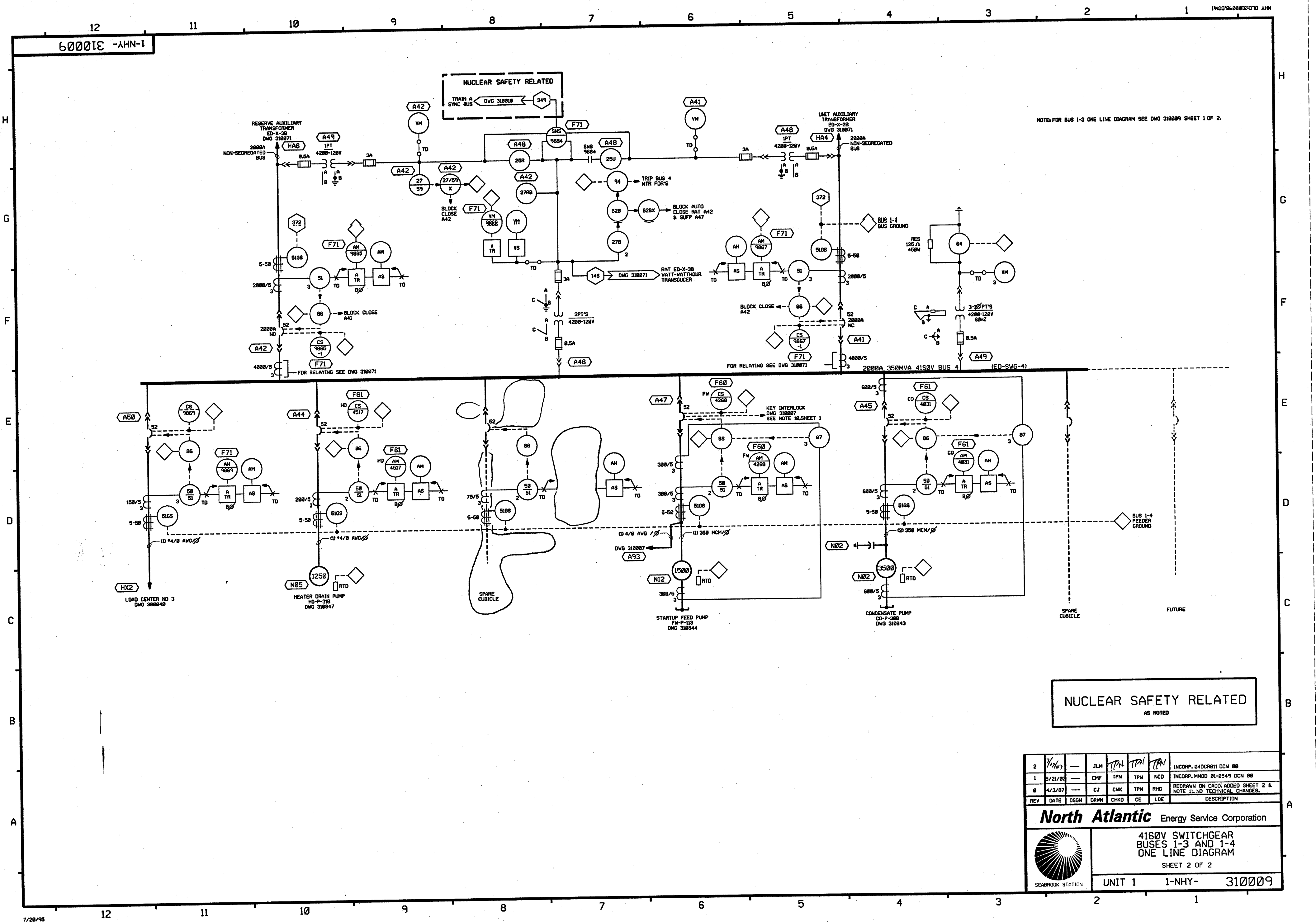




- NOTES:
1. ALL FEEDER BREAKERS ARE 1200A FRAME UNLESS OTHERWISE NOTED.
 2. FOR LEGEND SEE DWG 310009.
 3. ALL MOTOR CIRCUIT PROTECTIVE RELAYS ARE ON PHASE A AND C.
 4. FOR DEFINITION OF ALL SYMBOLS USED ON THIS DRAWING SEE ANSI Y32-2.
 5. THE SYSTEM PREFIX IS 'ED' UNLESS OTHERWISE NOTED. ALL EQUIPMENT AND DEVICES THAT HAVE TAG NUMBERS ARE TO BE PREFIXED WITH A SYSTEM NOTATION.
 6. ○ REFERS TO CONNECTION ON THIS DRAWING UNLESS OTHERWISE NOTED.
 7. ALL EQUIPMENT IS LOCATED AT THE SWITCHGEAR UNLESS OTHERWISE NOTED. ○ INDICATES EQUIPMENT NODE LOCATION DESIGNATION. FOR EXAMPLE:
○ EQUIPMENT LOCATED AT SWITCHGEAR
○ EQUIPMENT LOCATED AT MAIN CONTROL BOARD
 8. FOR SCHEMATICS OF TRANSFORMER FEEDER CIRCUITS SEE DWG 310182.
 9. GROUND SENSOR CURRENT XFMR LOCATION RELATIVE TO OVERCURRENT CURRENT XFMR MAY NOT BE SHOWN IN EXACT PHYSICAL RELATIONSHIP. FOR PRECISE LOCATION SEE:
FP 30033 - BUS 1-3
FP 30037 - BUS 1-4
 10. START-UP FEED PUMP BUS 4 BREAKER (A47) IS MECHANICALLY AND ELECTRICALLY INTERLOCKED WITH BUS 5 BREAKER (A53) SO THAT ONLY ONE BREAKER CAN BE CLOSED AT ANY TIME. THE KEY IS REMOVABLE ONLY WHEN THE BREAKER IS RACKED OUT.
 11. FOR BUS 1-4 ONE LINE DIAGRAM SEE DWG 310009 SHEET 2 OF 2.
 12. DIGITAL CONTROL SYSTEM REMOTE I/O ENCLOSURE SEE FP 70004 & 70010.
 13. 94X TRIPS CONDENSATE POLISHING PUMP MOTOR. 94 TRIPS ALL OTHER MOTORS ON BUS.

NUCLEAR SAFETY RELATED
AS NOTED

14	7/29/95	—	ACW	DPJ	RM	TPN	INCORP DCR 97-013 DCN-55
13	7/16/93	—	GDC	TPN	TPN	TPN	INCORP DCR 82-19 DCN 00
12	4/3/87	—	CJ	CHK	TPN	RWD	REVISION ON CONFORMANCE SHEET 2 AND NOTE IN REVISION BUS UNIT NUMBER AT NOTE 3 PER FOREIGN PRINTS
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
North Atlantic Energy Service Corporation							
 SEABROOK STATION							4160V SWITCHGEAR BUSES 1-3 AND 1-4 ONE LINE DIAGRAM SHEET 1 OF 2
UNIT 1 1-NHY-							310009



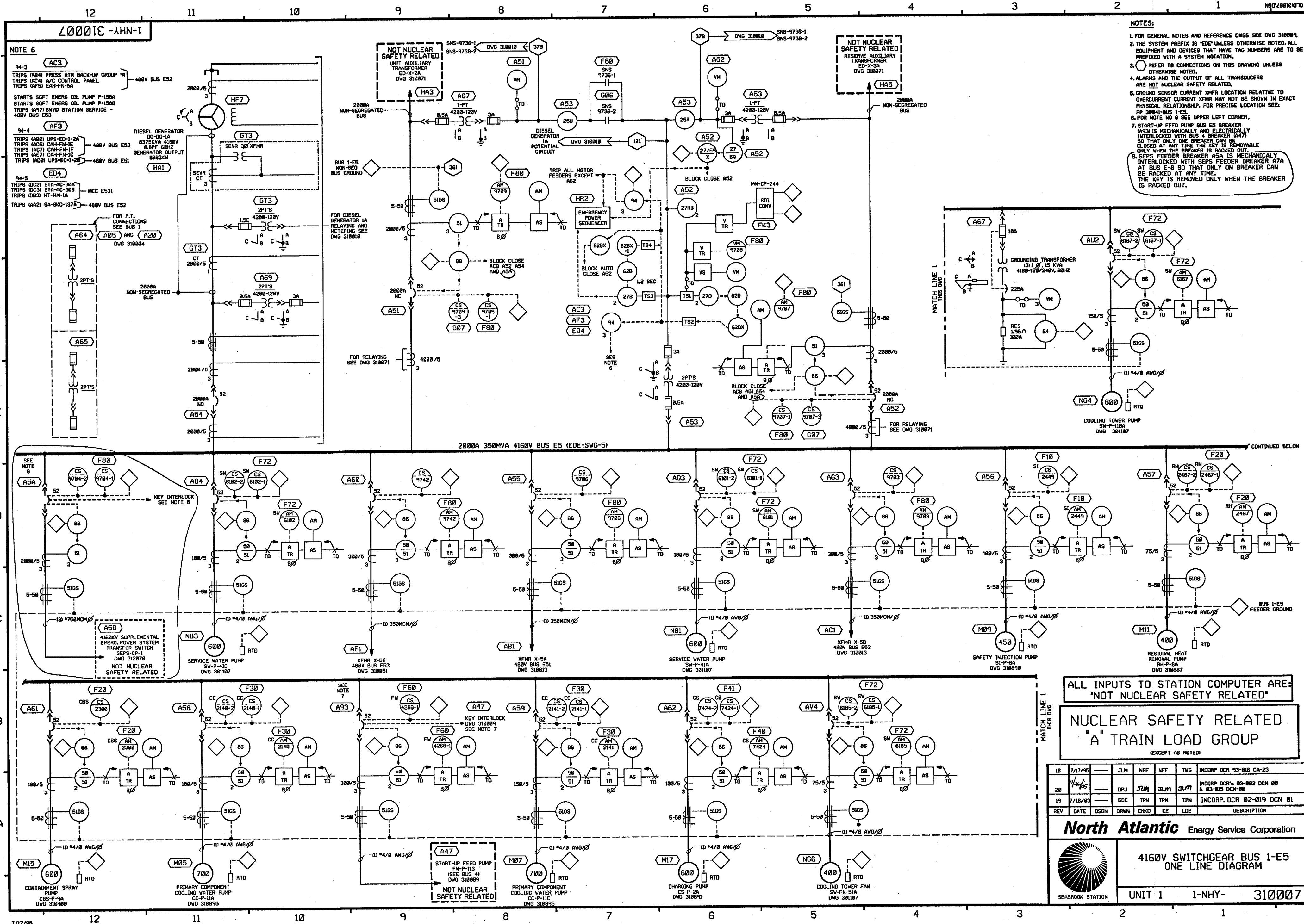
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NUCLEAR SAFETY RELATED

NOTE: FOR BUS 1-3 ONE LINE DIAGRAM SEE DWG 310009 SHEET 1 OF 2.

NUCLEAR SAFETY RELATED
AS NOTED

2	7/1/87	—	JLM	TPH	TPH	TPH	INCCORP. 84DCR011 DCN 00
1	5/21/82	—	CHF	TPN	TPN	NCD	INCCORP. 84DCR011 DCN 00
0	4/3/87	—	CJ	CKW	TPN	RHG	REDRAWN ON CADD, ADDED SHEET 2 & NOTE 11, NO TECHNICAL CHANGES.
REV	DATE	DSGN	DRWN	CHKD	CE	LOE	DESCRIPTION
North Atlantic Energy Service Corporation							
4160V SWITCHGEAR BUSES 1-3 AND 1-4 ONE LINE DIAGRAM SHEET 2 OF 2							
UNIT 1 1-NHY- 310009							



NOTES:

1. FOR GENERAL NOTES AND REFERENCE DWGS SEE DWG 310009.
2. THE SYSTEM PREFIX IS 'E' UNLESS OTHERWISE NOTED. ALL EQUIPMENT AND DEVICES THAT HAVE TAG NUMBERS ARE TO BE PREFIXED WITH A SYSTEM NOTATION.
3. REFER TO CONNECTIONS ON THIS DRAWING UNLESS OTHERWISE NOTED.
4. ALARMS AND THE OUTPUT OF ALL TRANSDUCERS ARE NOT NUCLEAR SAFETY RELATED.
5. GROUND SENSOR CURRENT XFR LOCATION RELATIVE TO OVERCURRENT CURRENT XFR MAY NOT BE SHOWN IN EXACT PHYSICAL RELATIONSHIP. FOR PRECISE LOCATION SEE: FP 30041-BUS 1-E5.
6. FOR NOTE NO 6 SEE UPPER LEFT CORNER.
7. START-UP FEED PUMP BUS E5 BREAKER (A53) IS MECHANICALLY AND ELECTRICALLY INTERLOCKED WITH BUS 4 BREAKER (A47) SO THAT ONLY ONE BREAKER CAN BE CLOSED AT ANY TIME THE KEY IS REMOVABLE ONLY WHEN THE BREAKER IS RACKED OUT.
8. SEPS FEEDER BREAKER A54 IS MECHANICALLY INTERLOCKED WITH SEPS FEEDER BREAKER A7A AT BUS E-6 SO THAT ONLY ONE BREAKER CAN BE RACKED AT ANY TIME. THE KEY IS REMOVED ONLY WHEN THE BREAKER IS RACKED OUT.

ALL INPUTS TO STATION COMPUTER ARE:
"NOT NUCLEAR SAFETY RELATED"

NUCLEAR SAFETY RELATED
"A" TRAIN LOAD GROUP
(EXCEPT AS NOTED)

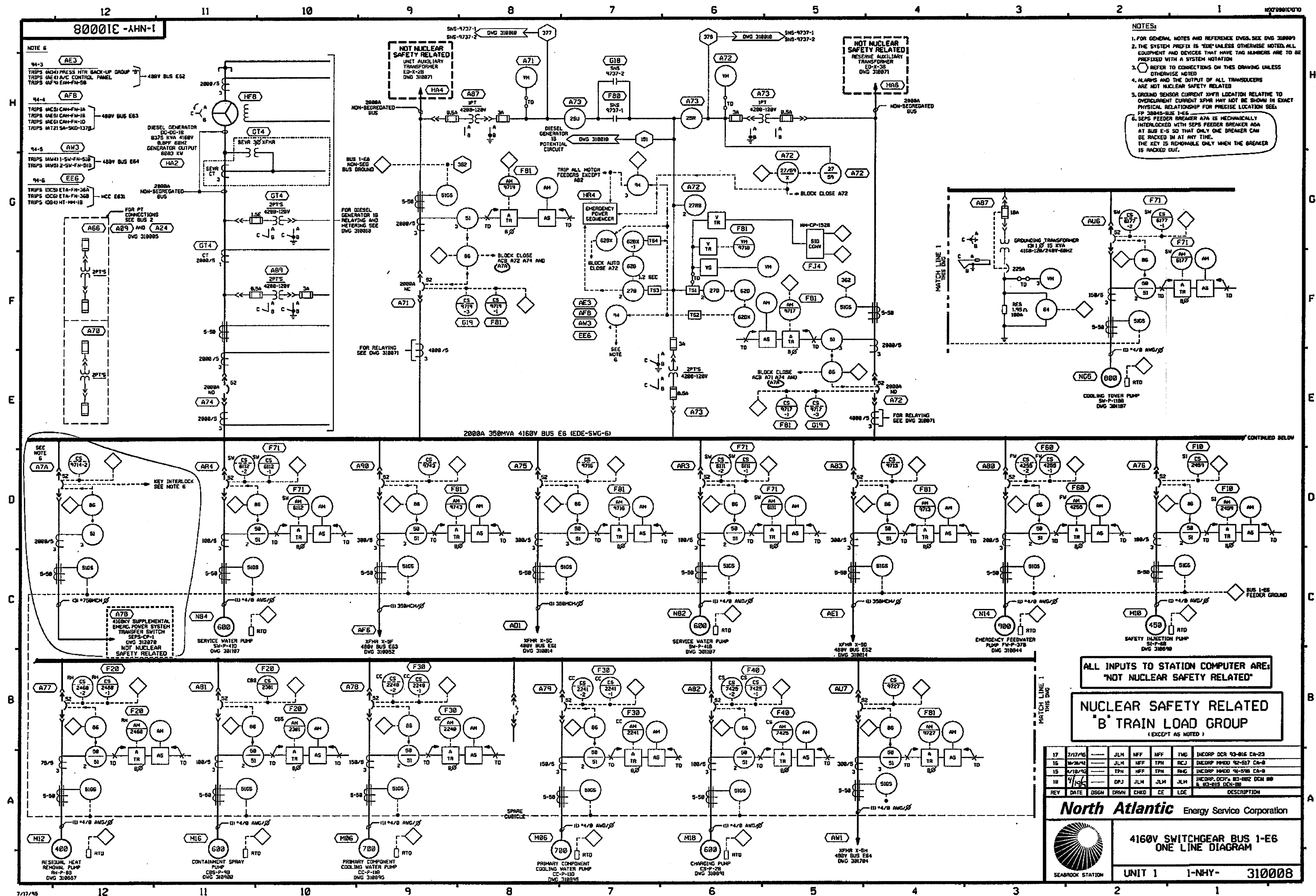
18	7/17/85	—	JLM	NFF	NFF	TWG	INCRP DCR 93-016 CA-23
20	4/2/85	—	DPJ	JLM	JLM	JLM	INCRP DCR- 83-002 DCN 00 & 83-015 DCN-00
19	7/16/83	—	GOC	TPN	TPN	TPN	INCRP DCR 02-019 DCN 01
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

North Atlantic Energy Service Corporation

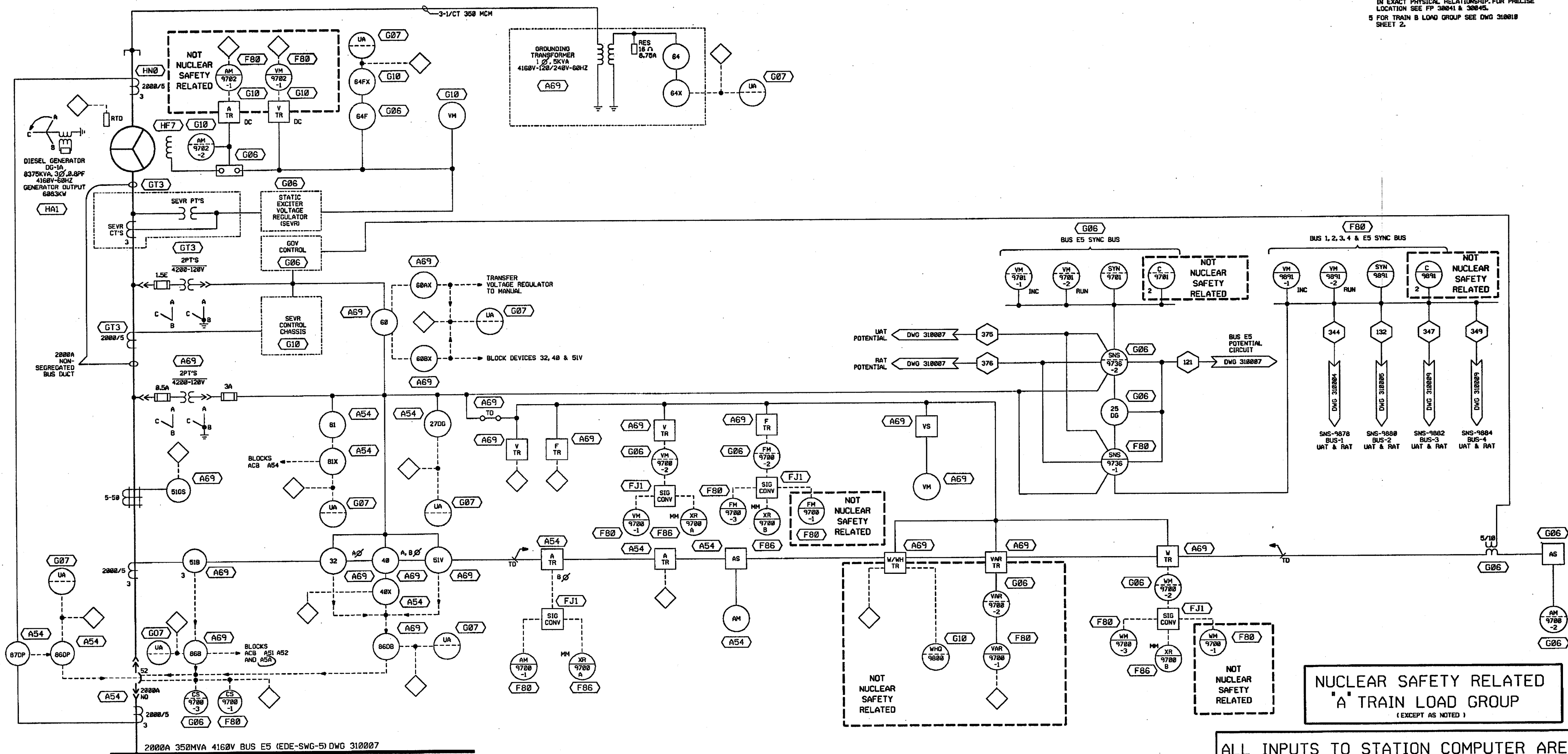


4160V SWITCHGEAR BUS 1-E5
ONE LINE DIAGRAM

UNIT 1 1-NHY- 310007



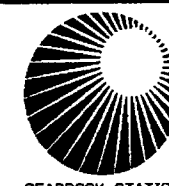
- 1 FOR GENERAL NOTES SEE DWG 310809
- 2 THE SYSTEM PREFIX IS 'EDE' UNLESS OTHERWISE NOTED. ALL EQUIPMENT & DEVICES THAT HAVE TAG NUMBERS ARE TO BE PREFIXED WITH A SYSTEM NOTATION.
- 3 ALL ALARMS AT MCB ARE NOT NUCLEAR SAFETY RELATED.
- 4 GROUND SENSOR CURRENT X4FR LOCATION RELATIVE TO OVERCURRENT CURRENT IS MAY NOT BE SHOWN IN EXACT PHYSICAL RELATIONSHIP. FOR PRECISE LOCATION SEE FP 38041 & 38045.
- 5 FOR TRAIN B LOAD GROUP SEE DWG 310818 SHEET 2.



ALL INPUTS TO STATION COMPUTER ARE:
"NOT NUCLEAR SAFETY RELATED"

13	11/6/95	---	JLM	NFF	NFF	VCP	INCRP DCR 95-022 CA-8
12	10/30/94	---	JLM	NFF	TPN	RCJ	INCRP MM00 92-517 CA-8
15	4/24/95	---	JLM	TPN	TPN	RCJ	INCRP DCR 83-015 DCN-88
4	7/17/83	---	CHF	JLM	JLM	TPN	INCRP DCR 81-0085 DCN 89
REV	DATE	PSGN	PSGN	CHKD	DE	DOE	DESCRIPTION

North Atlantic Energy Service Corporation



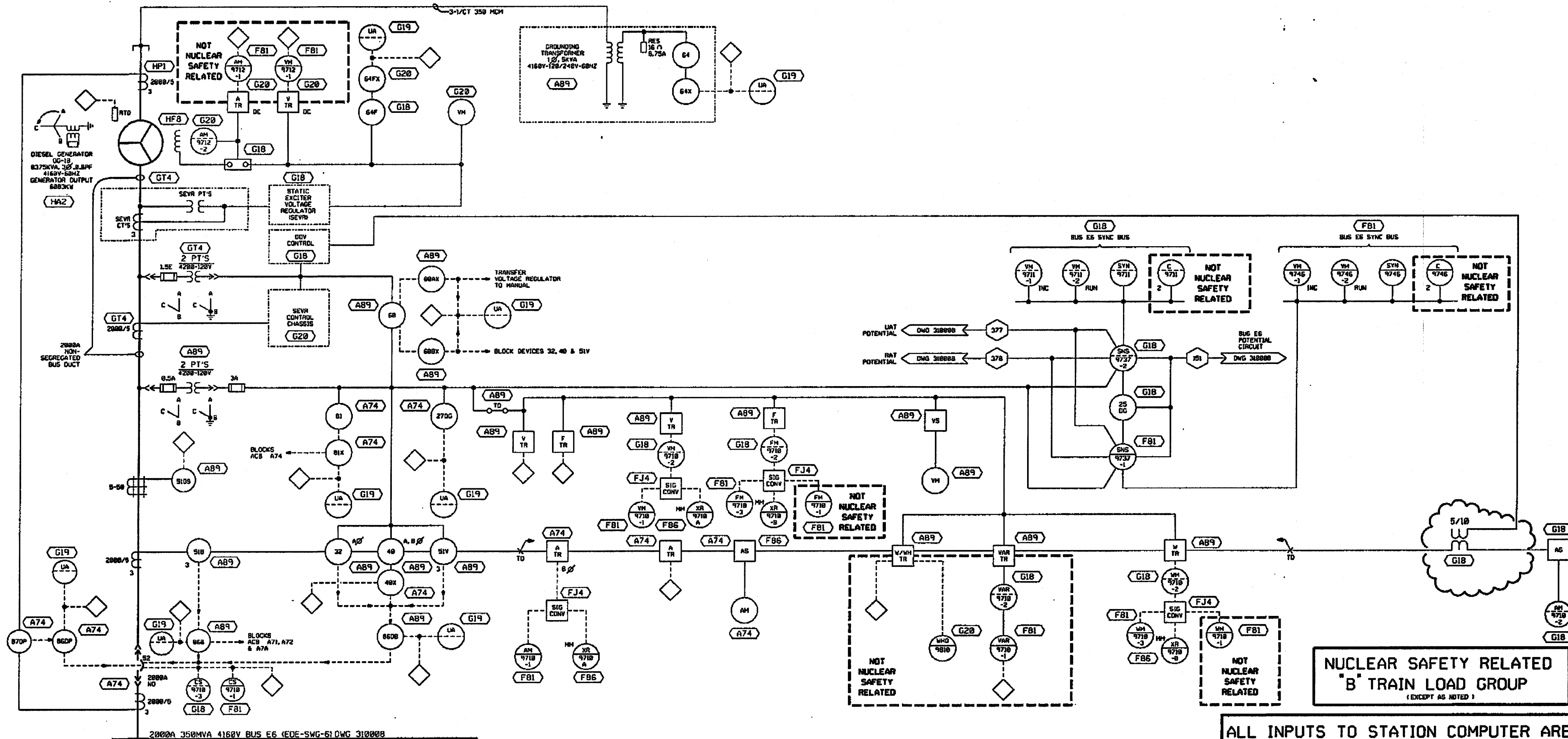
DIESEL GENERATOR DG-1A AND DG-1B ONE LINE DIAGRAM

SHEET 1 OF 2

UNIT 1 1-NHY- 310010

01001E -AHN-1


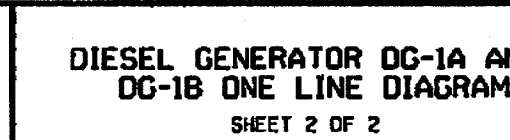
NOTES:
1 FOR NOTES SEE DWG 31001B SHEET 1.
2 FOR TRAIN A LOAD GROUP SEE DWG 31001B SHEET 1.




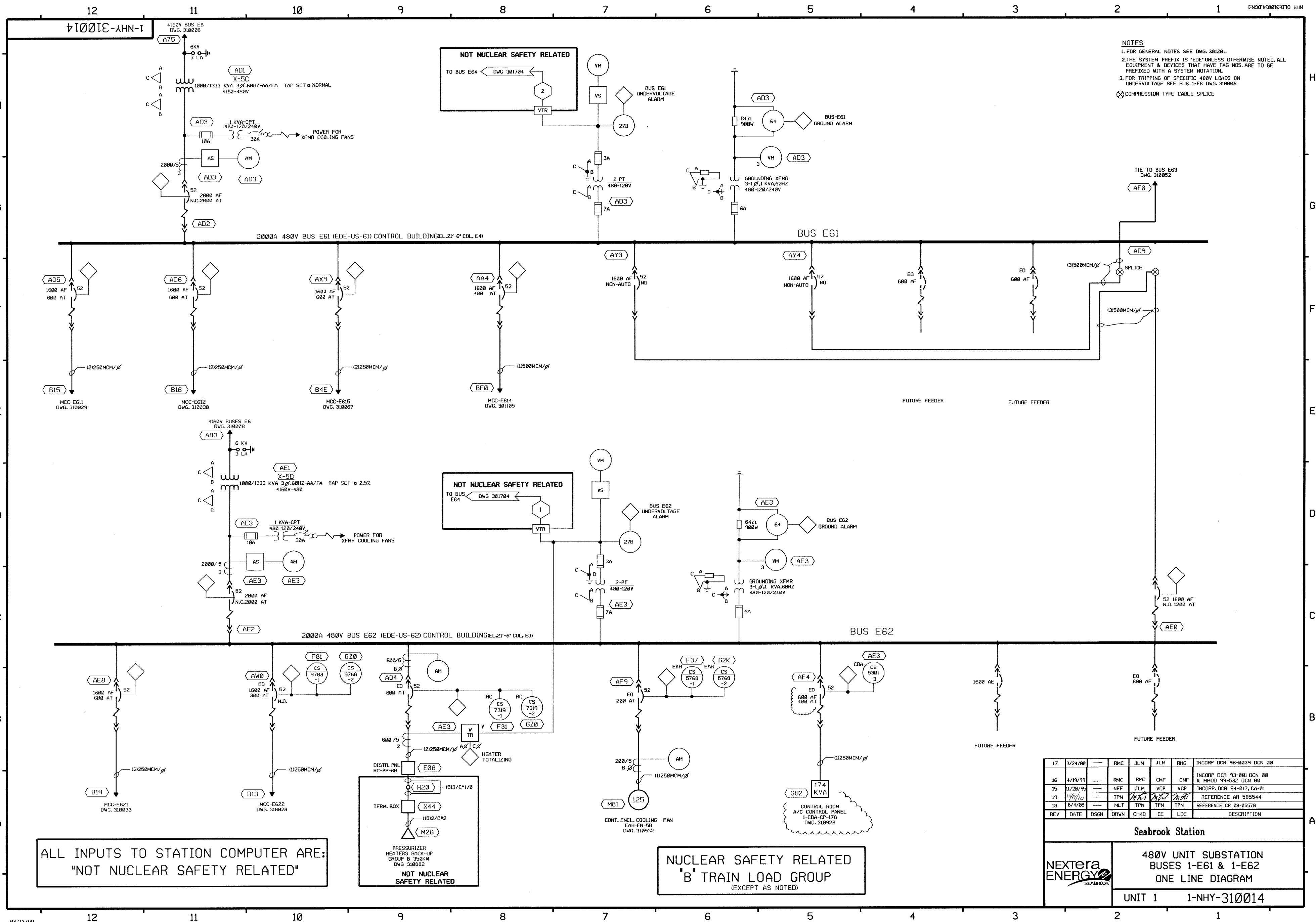
NUCLEAR SAFETY RELATED
"B" TRAIN LOAD GROUP
(EXCEPT AS NOTED)

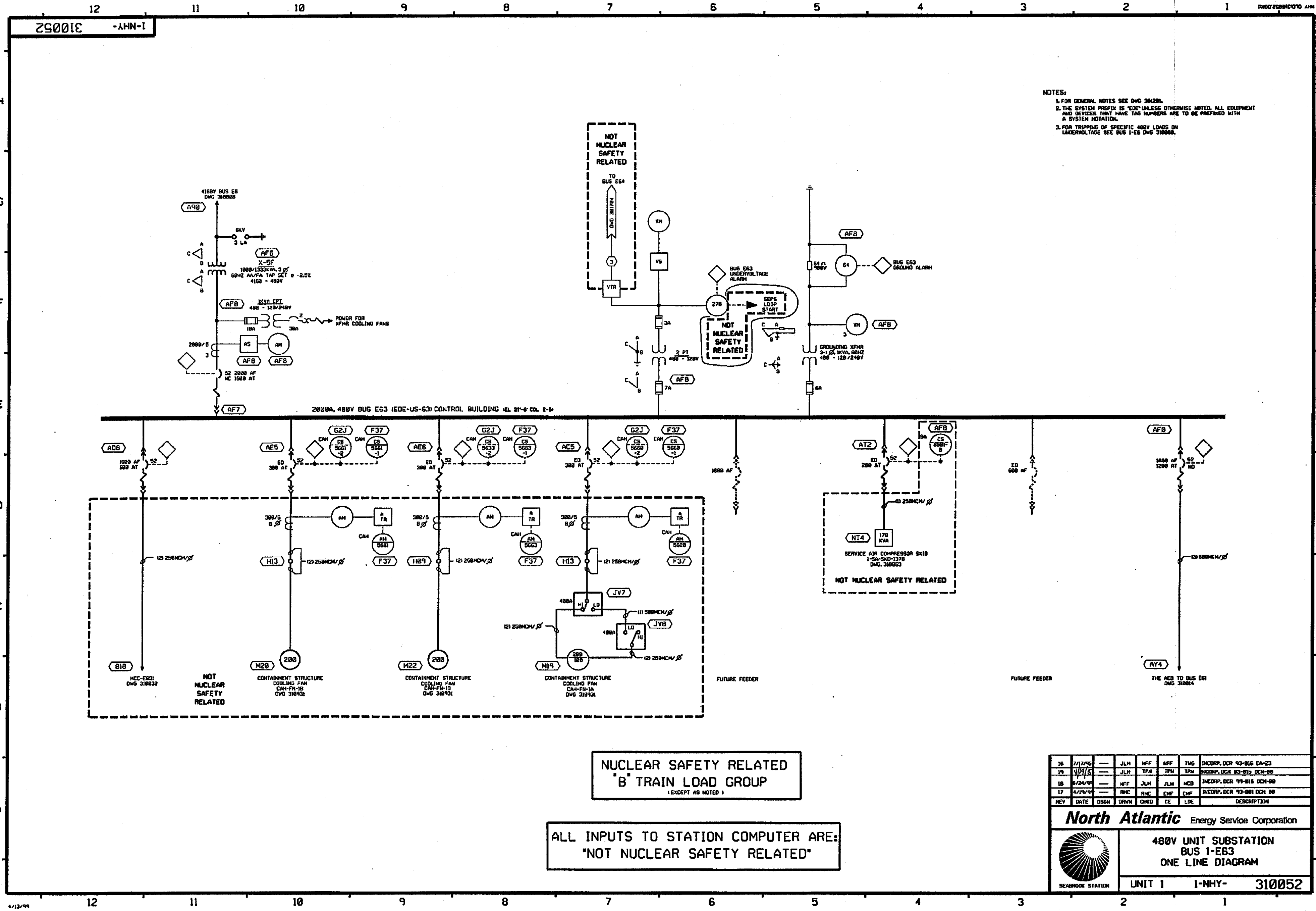
ALL INPUTS TO STATION COMPUTER ARE:
"NOT NUCLEAR SAFETY RELATED"

4	4/1/75	SP	JLM	JLM	JLM	INCORP. DCR-81-0005, DCM-89-5 DCR 89-010 DCM-89	
3	11/6/74	JLM	NFF	NFF	VCP	INCORP. DCM-89-510 DCM-89-5	
2	10/30/74	JLM	NFF	TPN	RCJ	INCORP. DCM-89-510 DCM-89-5	
REV	DATE	DSGN	ORAN	CHKD	CE	LDE	DESCRIPTION

		North Atlantic Energy Service Corporation	
		DIESEL GENERATOR DC-1A AND DC-1B ONE LINE DIAGRAM	
		SHEET 2 OF 2	
		UNIT 1 1-NHY- 310010	


SEABROOK STATION




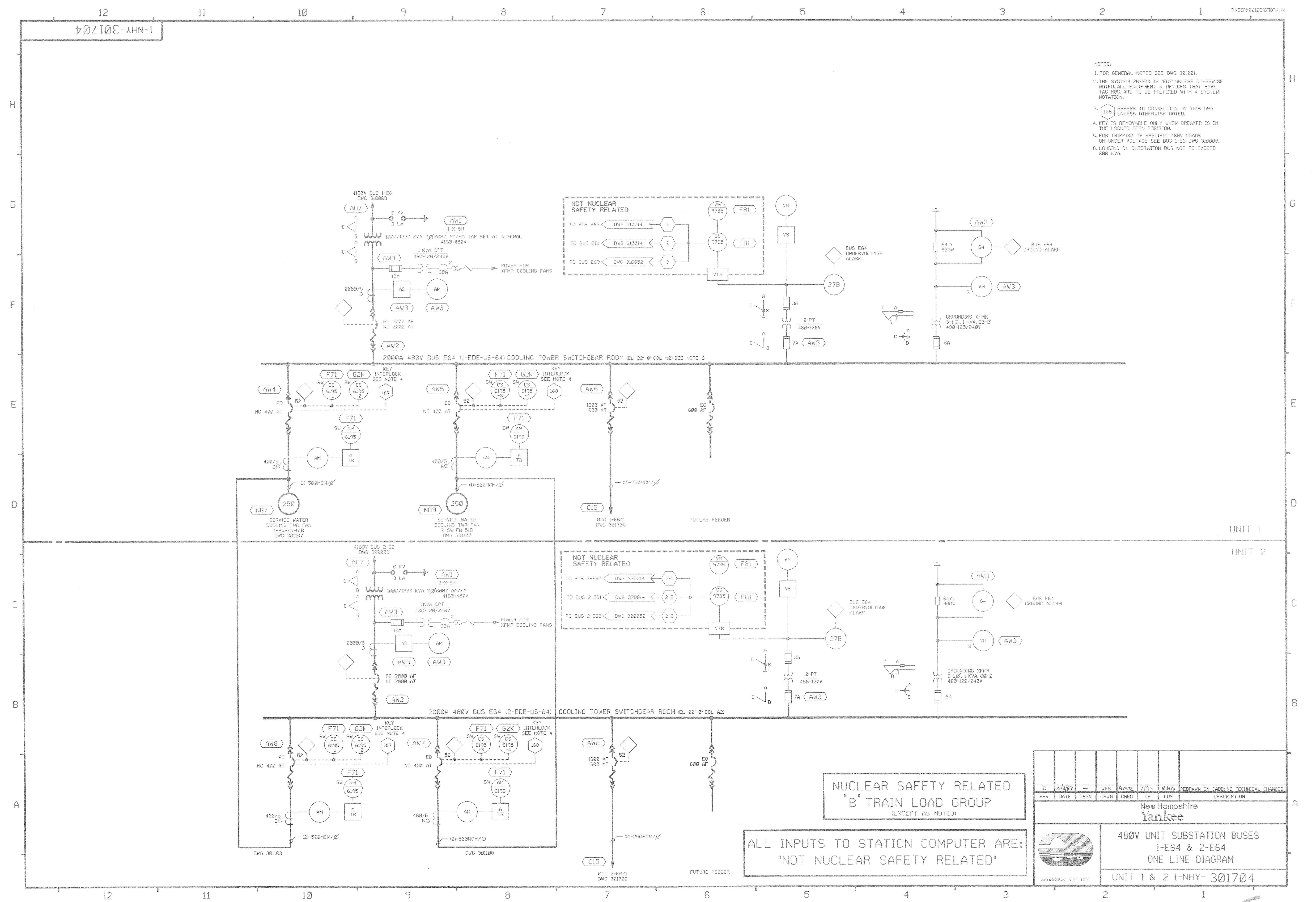


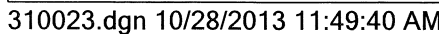
NOTES:
1. FOR GENERAL NOTES SEE DWG 310051.
2. THE SYSTEM PREFIX IS 'E' UNLESS OTHERWISE NOTED. ALL EQUIPMENT AND DEVICES THAT HAVE TAG NUMBERS ARE TO BE PREFIXED WITH A SYSTEM NOTATION.
3. FOR TRIPPING OF SPECIFIC 480V LOADS ON UNDERVOLTAGE SEE BUS 1-E6 DWG 310054.

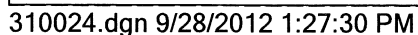
NUCLEAR SAFETY RELATED
B TRAIN LOAD GROUP
(EXCEPT AS NOTED)

ALL INPUTS TO STATION COMPUTER ARE:
NOT NUCLEAR SAFETY RELATED

16	2/1/75	JLM	NFF	NFF	TMG	INCORP. DCR 93-016 DA-23
19	4/1/75	JLM	TPN	TPN	TPN	INCORP. DCR 93-016 DEN-80
18	8/24/75	NFF	JLM	JLM	MCD	INCORP. DCR 93-016 DCN-80
17	4/1/74	RMC	RMC	CHF	CHF	INCORP. DCR 93-001 DCN 80
REV	DATE	DESIGN	DRWN	CHKD	CEE	DESCRIPTION
North Atlantic Energy Service Corporation						
						
480V UNIT SUBSTATION BUS 1-EB3 ONE LINE DIAGRAM						
UNIT 1 1-NHY- 310052						

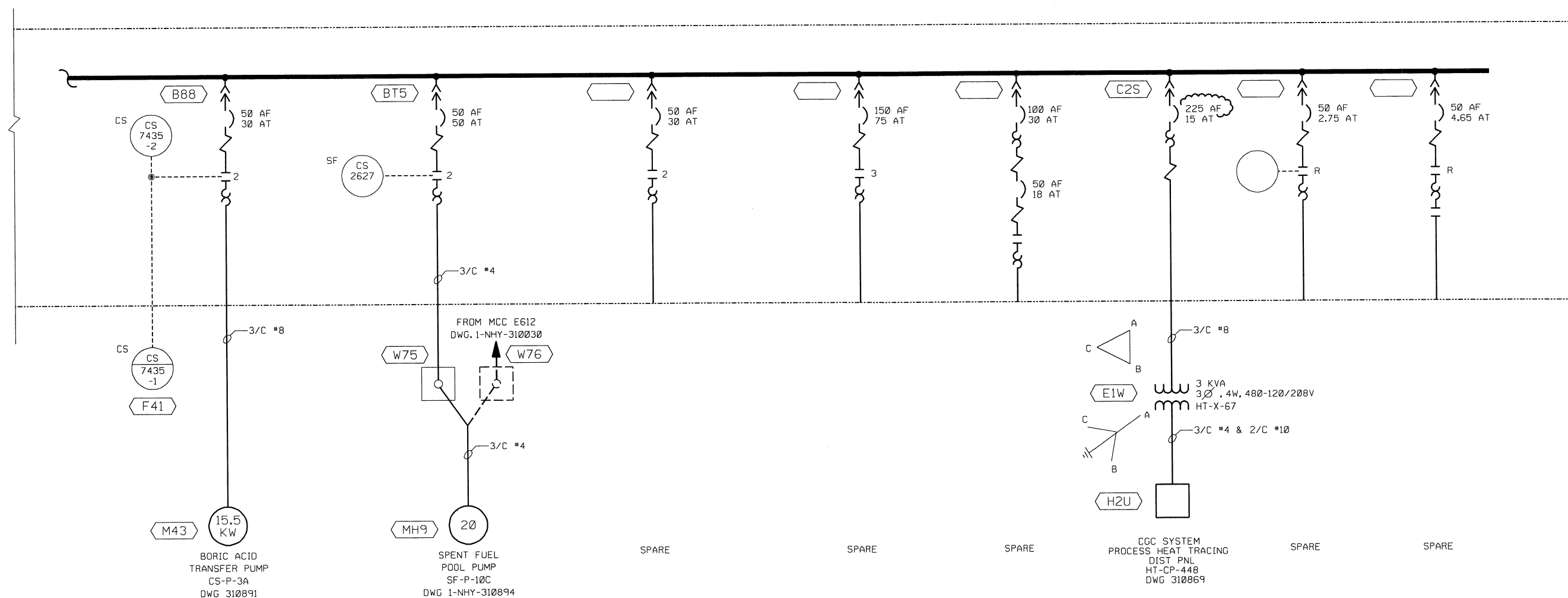
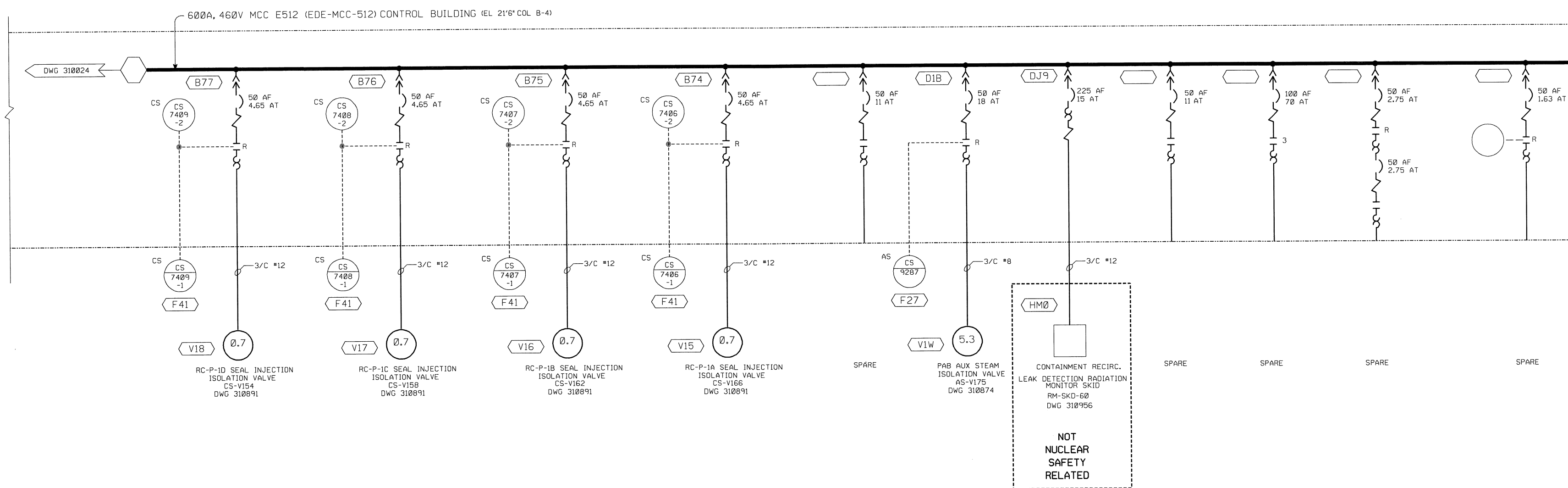






1-NHY-310057

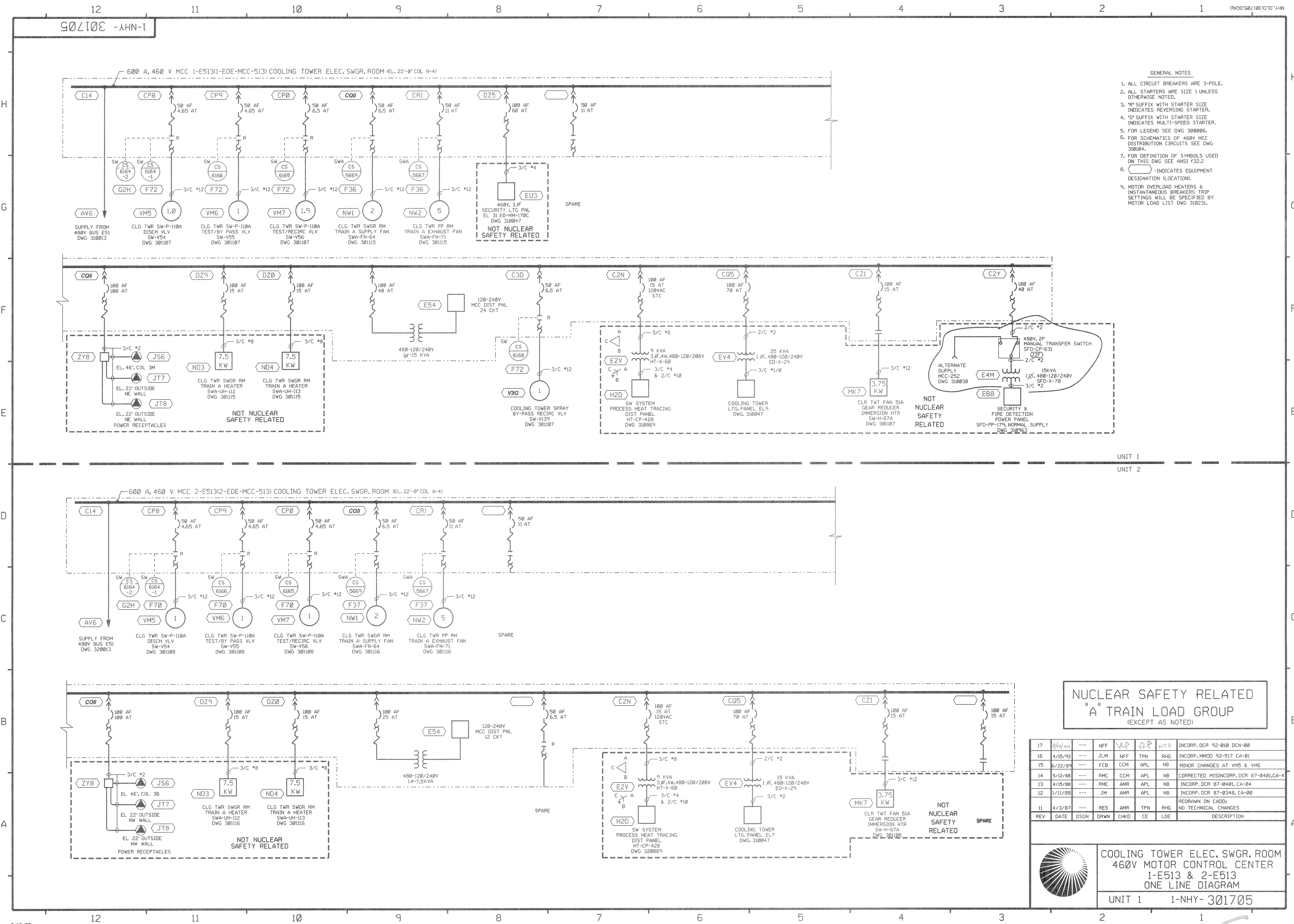
NOTES:
1. FOR GENERAL NOTES SEE DRAWING 310099

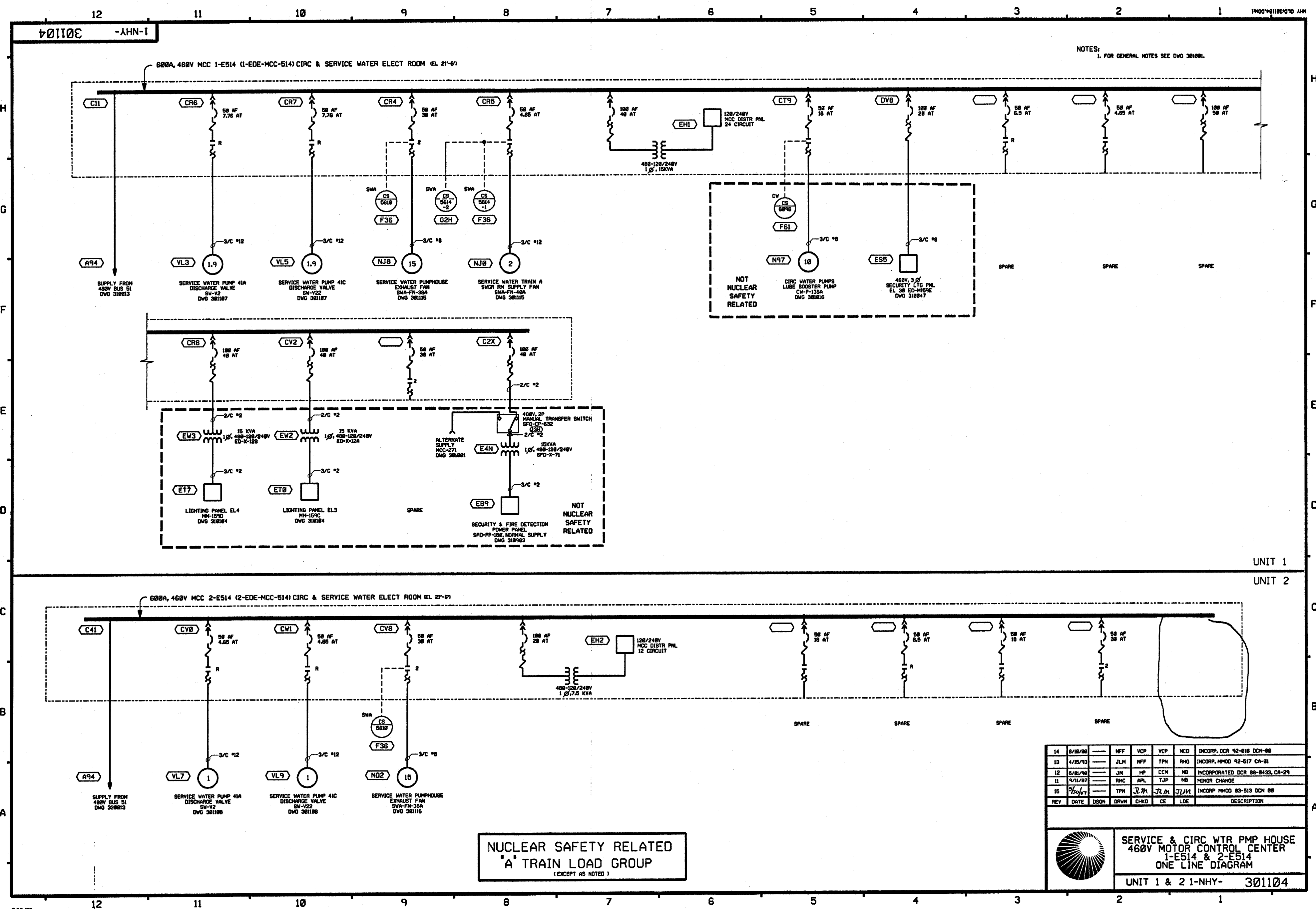


NUCLEAR SAFETY RELATED
"A" TRAIN LOAD GROUP

REV	DATE	DSGN	DRWN	CHKD	CE	LOE	DESCRIPTION
16	10/30/13	MLT	TPN	TPN	TPN		INCCORP EC 12526
15	10/21/08		TPN	JLM	JLM		INCCORP EC 12704
14	5/19/97		RJS	NFF	NFF	NCD	INCCORP, DCR 94-0005, DCN 17
13	4/3/87		DWS	CKW	TPN	RHG	REDRAWN ON CADD; NO TECHNICAL CHANGES.

Seabrook Station			
Nextera ENERGY SEABROOK	CONTROL BUILDING 460V MOTOR CONTROL CENTER 1-E512 ONE LINE DIAGRAM-SHEET 2		
	UNIT 1	1-NHY-	310057





NOTES:
1. FOR GENERAL NOTES SEE DWD 301001.

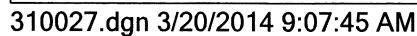
UNIT 1
UNIT 2

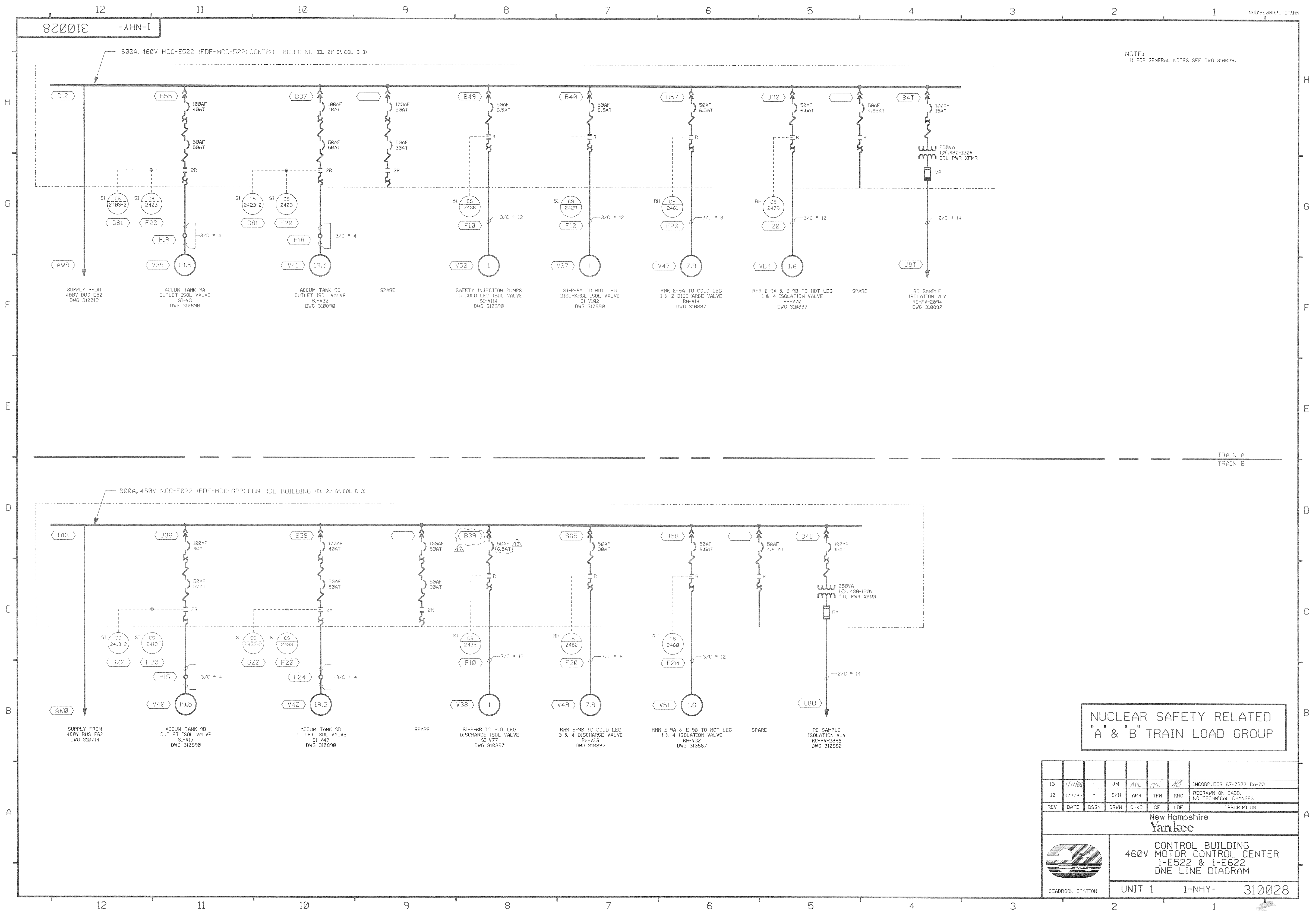
14	8/18/88	—	NFF	VCP	VCP	NCD	INCRP, DCR 92-018 DCN-08
13	4/16/93	—	JLM	NFF	TPN	RHG	INCRP, MMOD 92-017 CA-01
12	5/8/98	—	JM	HP	CCN	NB	INCORPORATED DCR 86-0433, CA-29
11	9/11/97	—	RMC	APL	TJP	NB	MINOR CHANGE
10	7/20/97	—	TPN	JLM	JLM	JLM	INCRP MMOD 83-513 DCN-00
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

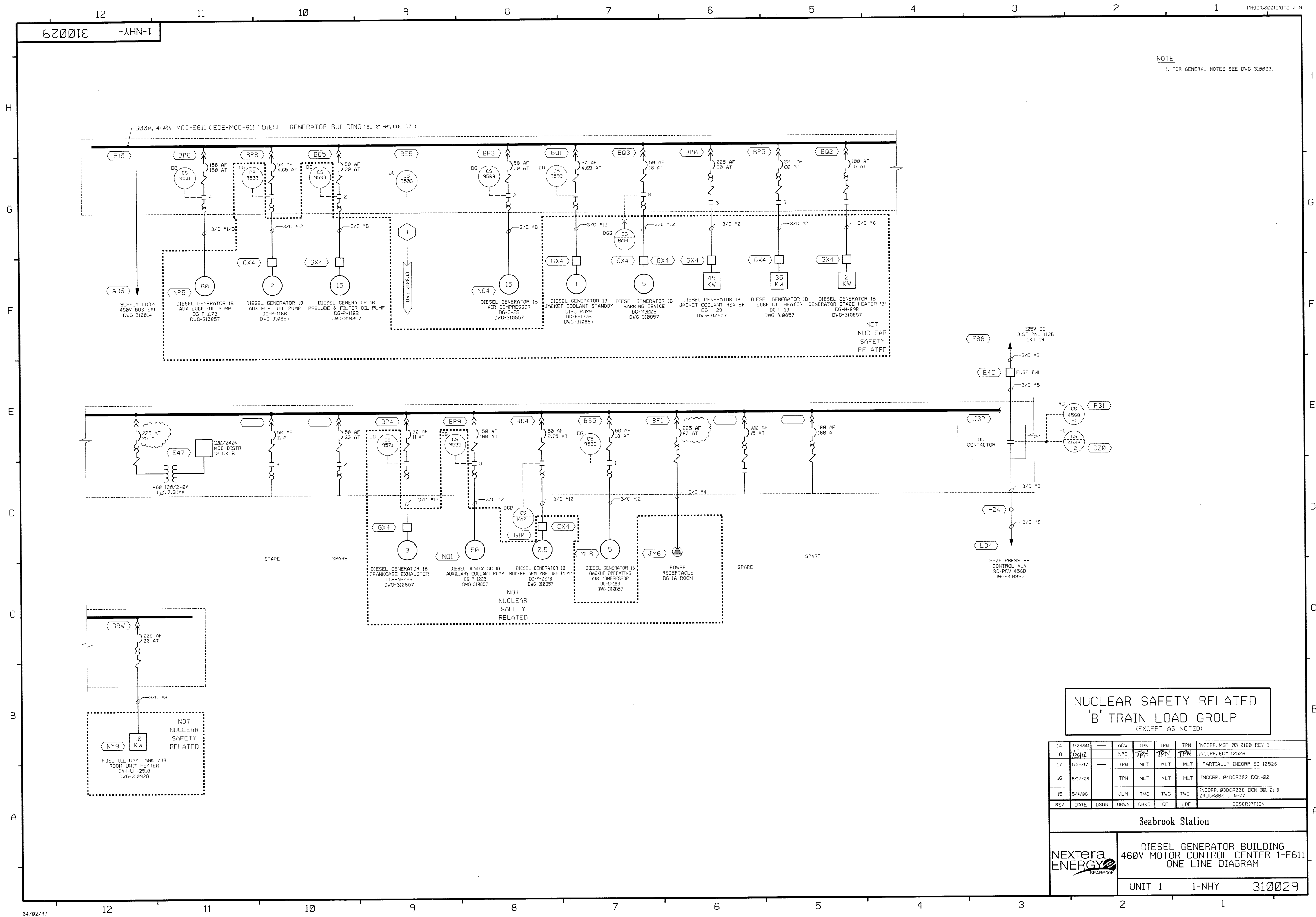


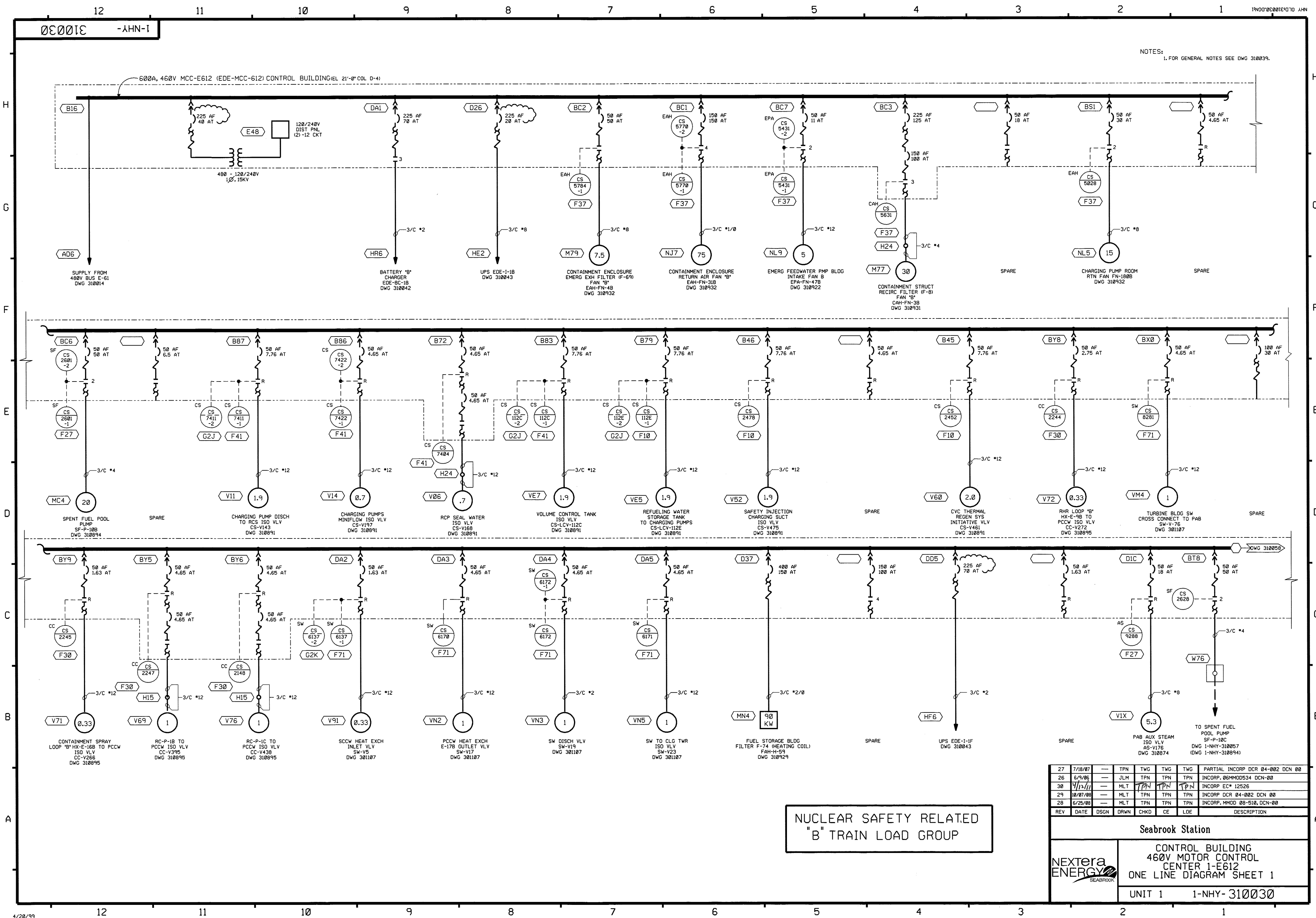
SERVICE & CIRC WTR PMP HOUSE
460V MOTOR CONTROL CENTER
1-E514 & 2-E514
ONE LINE DIAGRAM
UNIT 1 & 2 1-NHY- 301104

NUCLEAR SAFETY RELATED
A' TRAIN LOAD GROUP
(EXCEPT AS NOTED)





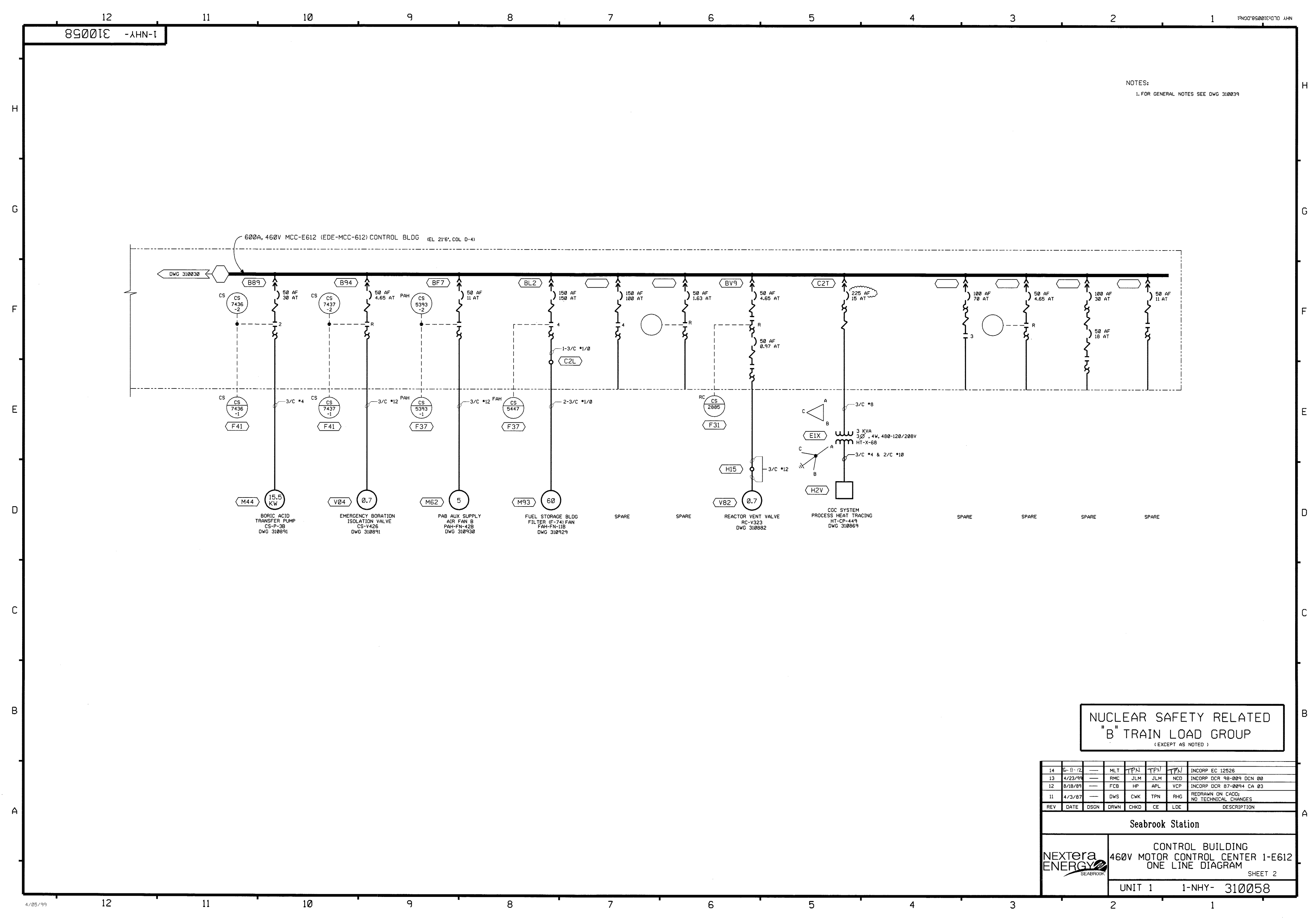




NOTES:
1. FOR GENERAL NOTES SEE DWG 310039.

NUCLEAR SAFETY RELATED
"B" TRAIN LOAD GROUP

27	7/18/07	---	TPN	TWG	TWG	TWG	PARTIAL INCORP DCR 04-002 DCN 00
26	6/9/06	---	JLM	TPN	TPN	TPN	INCORP. 06MMOD534 DCN-00
30	4/11/11	---	MLT	TPN	TPN	TPN	INCORP EC* 12526
29	10/07/08	---	MLT	TPN	TPN	TPN	INCORP DCR 04-002 DCN 00
28	6/25/08	---	MLT	TPN	TPN	TPN	INCORP. MMOD 08-510, DCN-00
REV	DATE	DSGN	DRWN	CHKD	CE	LOE	DESCRIPTION
Seabrook Station							
CONTROL BUILDING 460V MOTOR CONTROL CENTER 1-E612 ONE LINE DIAGRAM SHEET 1							
UNIT 1				1-NHY-310030			



NUCLEAR SAFETY RELATED
"B" TRAIN LOAD GROUP
(EXCEPT AS NOTED)

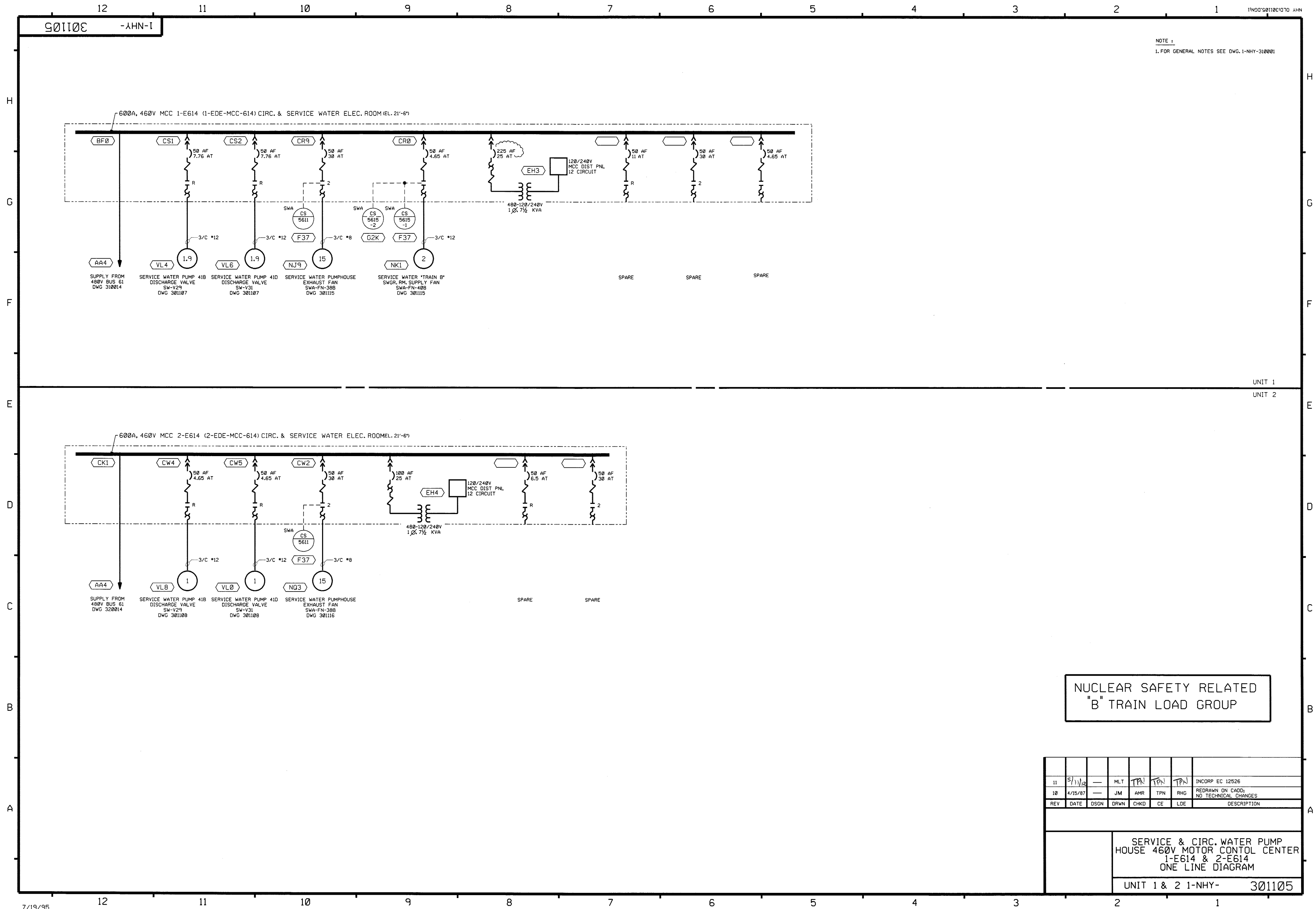
14	5-11-12	MLT	TPN	TPN	TPN	INCRP EC 12526	
13	4/23/99	RMC	JLM	JLM	NCD	INCRP DCR 98-009 DCN 00	
12	8/18/89	FCB	HP	APL	VCP	INCRP DCR 87-0094 CA 03	
11	4/3/87	DWS	CKW	TPN	RHG	REDRAWN ON CA03; NO TECHNICAL CHANGES	
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

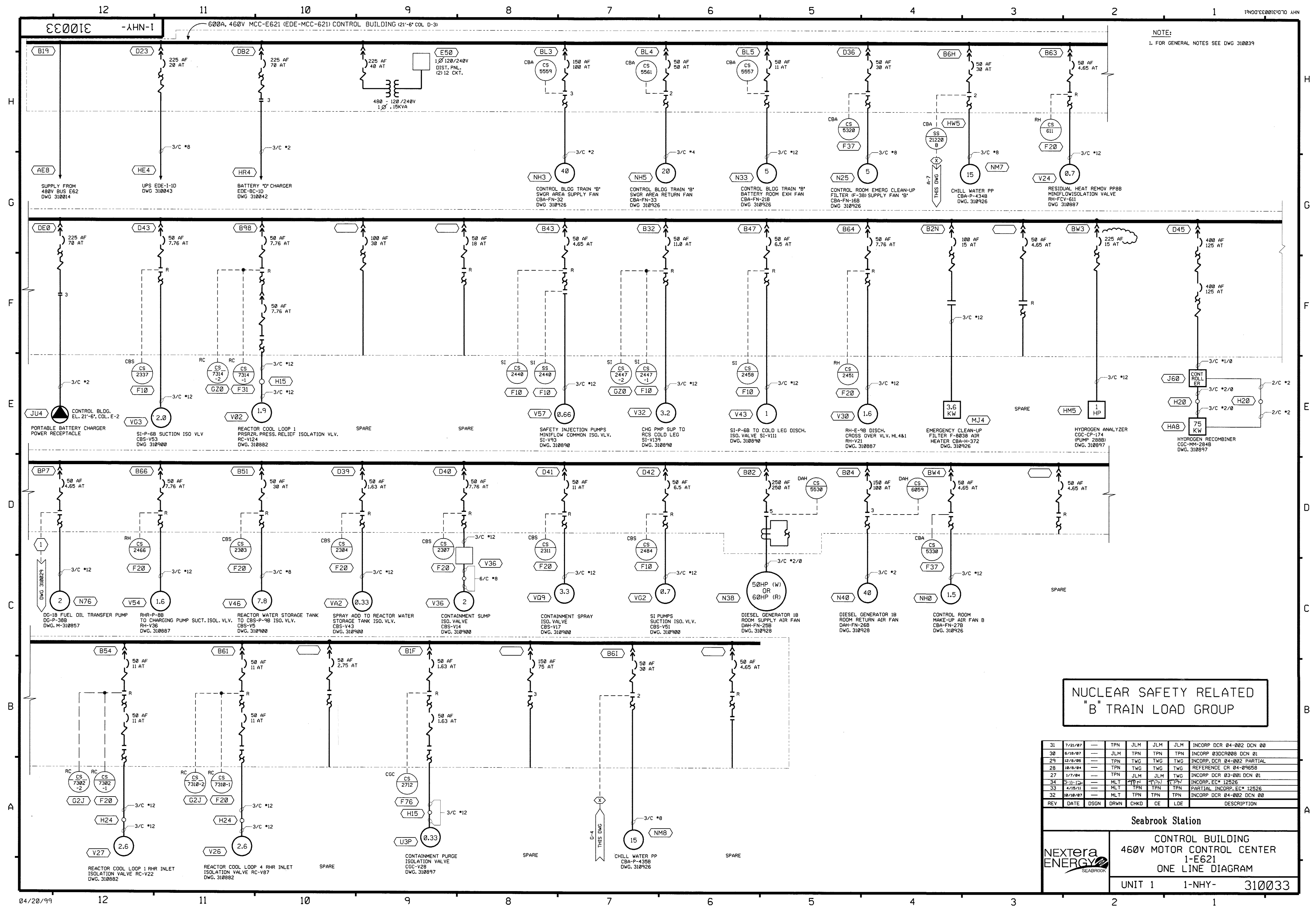
Seabrook Station

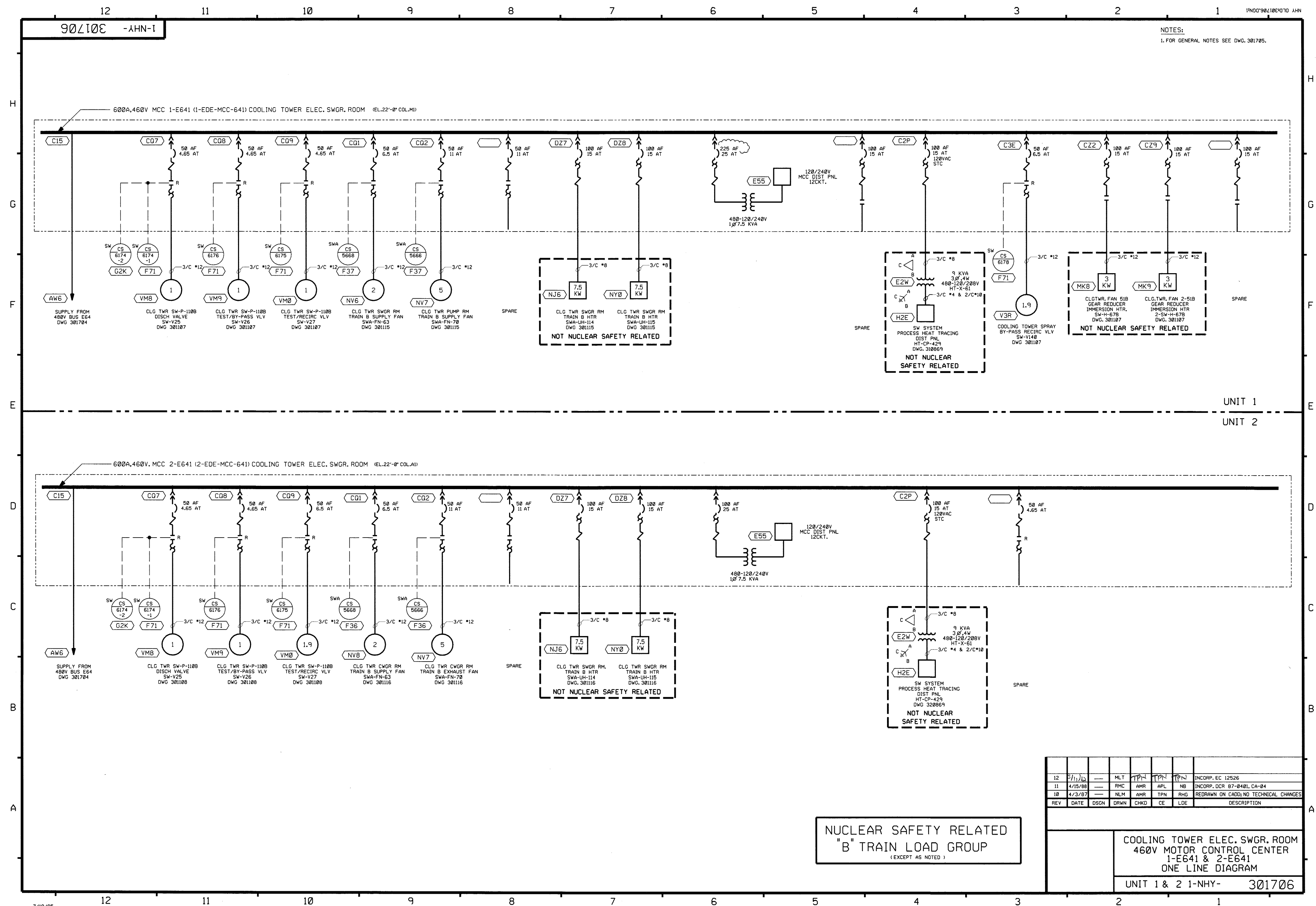
NEXTERA
ENERGY
SEABROOK

CONTROL BUILDING
460V MOTOR CONTROL CENTER 1-E612
ONE LINE DIAGRAM
SHEET 2

UNIT 1 1-NHY- 310058







NOTES:
1. FOR GENERAL NOTES SEE DWG. 301705.

NUCLEAR SAFETY RELATED
"B" TRAIN LOAD GROUP
(EXCEPT AS NOTED)

12	7/19/95	---	MLT	TPN	TPN	TPN	INCOMP. EC 12526
11	4/15/88	---	RMC	AMR	APL	NB	INCOMP. DCR 87-0401, CA-04
10	4/3/87	---	NLM	AMR	TPN	RHG	REDRAWN ON CADD; NO TECHNICAL CHANGES
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
							COOLING TOWER ELEC. SWGR. ROOM 460V MOTOR CONTROL CENTER 1-E641 & 2-E641 ONE LINE DIAGRAM
							UNIT 1 & 2 1-NHY- 301706

REV	DATE	DESCRIPTION	REV	DATE	DESCRIPTION
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12	11/15/99	INCORP. MAND. 98-638 DCM 01	12	11/15/99	INCORP. MAND. 98-638 DCM 01

NUCLEAR SAFETY RELATED
A TRAIN LOAD GROUP
CHANNEL I

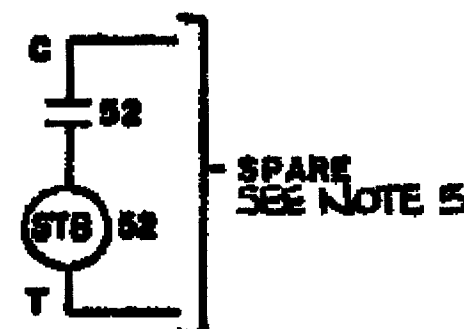
UPS 1-I-1A
VITAL INSTRUMENT
DISTR. PANEL 1-PP-1A
SCHEDULE

New Hampshire
Yankee
Seabrook
Station
SH. 80

1-NHY-310105 SH.E01a

REFERENCE DWG.	DESCRIPTION	LOAD	BKR TRIP (AMPS)	CKT NO.	CKT NO.	BKR TRIP (AMPS)	LOAD	DESCRIPTION	REFERENCE DWG.
310943 SH.FC6b	N1-CP-16 NIS CONTROL PANEL	—	15	1	2	15	—	MM-CP-12 SSPS INPUT CAB. CHANNEL I	310949 SH.E01/2a
310943 SH.FC6b	N1-CP-16 NIS INSTRUMENT POWER	—	15	3	4	15	—	MM-CP-13 SSPS INPUT CAB. CHANNEL I	310949 SH.E02/4a
—	SPARE	—	15	5	6	—	—	BLANK	—
SH.E01b	MCB-GR PAM I INSTRUMENT BUS	—	15	7	8	15	—	SPARE	—
—	BLANK	—	—	—	9	15	—	ED-CP-231 GRD. DETECTION CAB.	SH.E01/10a
310942 SH.E01/9	MM-CP-1 PPC CAB. SET I	—	30	9	10	15	—	PP-1A LOSS OF POWER	SH.E01/12
310949 SH.E01/2a	MM-CP-12 SSPS OUTPUT CAB.#2 TRAIN A	—	15	11	12	15	—	SPACE	—
310949 SH.E01/13a	MM-CP-14 SAFEGUARD TEST CAB.TRAIN A	—	15	13	14	—	—	MAINTENANCE SUPPLY ED-X-31A	SH.D27a
—	BLANK	—	—	—	15	100	—	—	—
SH.D27a	I-1A NORMAL SUPPLY	—	SEE NOTE 1	15	16	100	—	—	—

100A, 120VAC, 1Ø, 2W
DISTRIBUTION PANEL
(E01)
CONTROL BLDG. ELEV. 21'-6", COL. 1A



NOTES:

- 1- ALL BREAKERS ARE THERMAL MAGNETIC EXCEPT NORMAL SUPPLY BREAKER WHICH IS NON-AUTO.
- 2- FOR THREE LINE DIAGRAM SEE SH.D27a
- 3- FOR ARRIS'T SEE F.P. 31874
- 4- ■ - SEE SH. 5
- 5- SHUNT TRIP OPTIONAL
6. SEE CALCULATION 9763-3-ED-00 34-F FOR CIRCUIT LOAD AMPS.

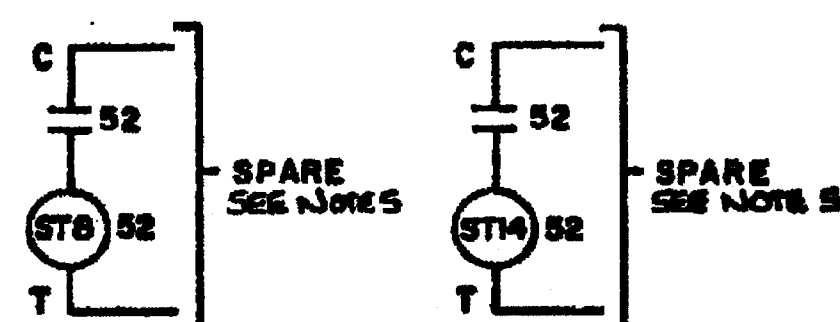
1-NHY-310105 SH.E01a

[illegible]


REFERENCE DWG.	DESCRIPTION	LOAD	BKR TRIP (AMPS)	CKT NO.	CKT NO.	BKR TRIP (AMPS)	LOAD	DESCRIPTION	REFERENCE DWG.
310943 SH. F61b	NI-CP-16 NIS CONTROL PANEL	—	15	1	2	15	—	MM-CP-12 SSPS INPUT CAB. CHANNEL II	310949 SH. E01/2a
310943 SH. F61b	NI-CP-16 NIS INSTRUMENT POWER	—	15	3	4	15	—	MM-CP-13 SSPS INPUT CAB. CHANNEL II	310949 SH. E02/4a
—	SPARE	—	15	5	6	—	—	BLANK	BARRIER
SH. E02b	MCB CR PAM 2 INSTRUMENT BUS	—	15	7	8	15	—	SPARE	—
BLANK					ST6				
310942 SH. E02/9	MM-CP-2 PPC CAB. SET II	—	30	9	10	15	—	ED-CP-232 GRD. DETECTION CAB.	SH. E02/10a
310949 SH. E02/4a	MM-CP-13 SSPS OUTPUT CAB #2 TRAIN B	—	15	11	12	15	—	PP-18 LOSS OF POWER	SH. E02/12
310949 SH. E01/13a	MM-CP-15 SAFEGUARD TEST CAB. TRAIN B	—	15	13	14	40	—	SPARE	—
BLANK					ST14				
SH. D26a	I-18 NORMAL SUPPLY	—	SEE NOTE 1	15	16	100	—	MAINTENANCE SUPPLY ED-X-315	SH. D26a

**NUCLEAR SAFETY RELATED
'B' TRAIN LOAD GROUP
CHANNEL II**

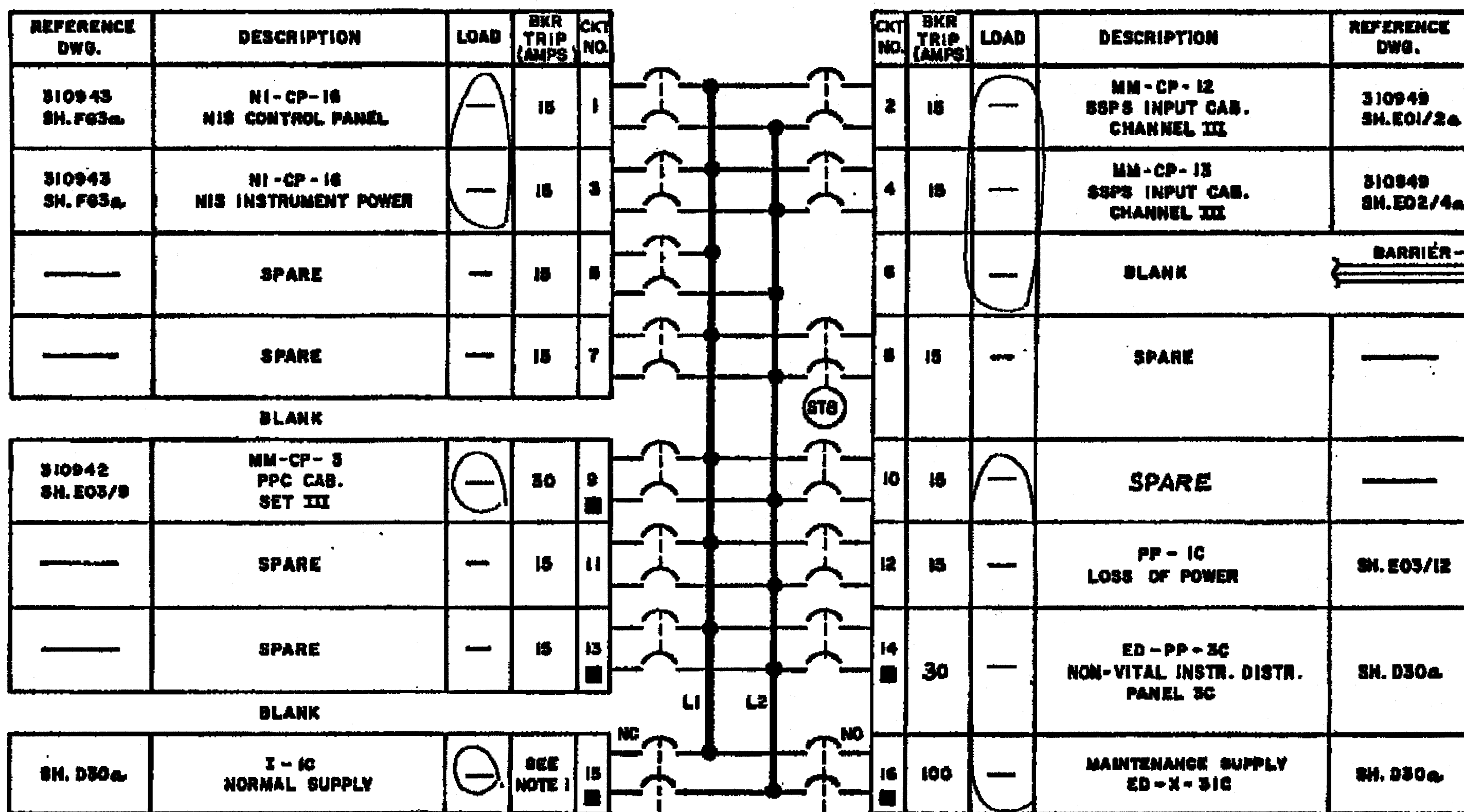
100A, 120VAC, 1Ø, 2W
DISTRIBUTION PANEL
E02
CONTROL BLDG. ELEV. 21'-6", COL. 1D



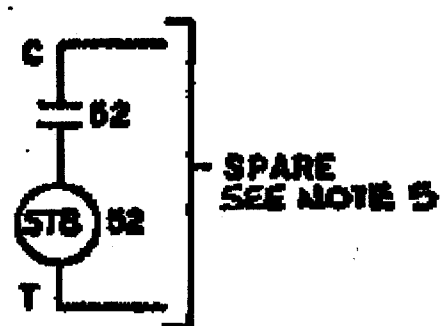
NOTES:

- 1- ALL BREAKERS ARE THERMAL MAGNETIC EXCEPT NORMAL SUPPLY BREAKER WHICH IS NON-AUTO.
- 2- FOR THREE LINE DIAGRAM SEE SH. D28a
- 3- FOR ARRGT SEE F.P. 31875
- 4-  - SEE SH. 3
- 5- SHUNT TRIP OPTIONAL
6. SEE CALCULATION 9763-3-ED-00-34-F
FOR CIRCUIT LOAD AMPS.


1-NHY-310105 SH. E02a

[illegible]

100A, 120VAC, 1Ø, 2W
DISTRIBUTION PANEL
E03
CONTROL BLDG. ELEV. 21'-6", COL. 1A



- NOTES:**

- 1- ALL BREAKERS ARE THERMAL MAGNETIC EXCEPT NORMAL SUPPLY BREAKER WHICH IS NON-AUTO.
- 2- FOR THREE LINE DIAGRAM SEE SH. 0308
- 3- FOR ARRG'T SEE P.P. 31876
- 4-  - SEE SH. 3
- 5- SHUNT TRIP OPTIONAL
6. SEE CALCULATION 9763-3-ED-00-34-F FOR CIRCUIT LOAD AMPS.

1-NHY-310105 SH. E03a



- 1- ALL BREAKERS ARE THERMAL MAGNETIC EXCEPT NORMAL SUPPLY BREAKER WHICH IS NON-AUTO.
- 2- FOR THREE LINE DIAGRAM SEE SH. D23a
- 3- FOR ARRGT SEE F.P. 31077
- 4- - SEE SH. 3
- 5- SHUNT TRIP OPTIONAL
6. SEE CALCULATION 9763-3-ED-00-34-F FOR CIRCUIT LOAD AMPS.

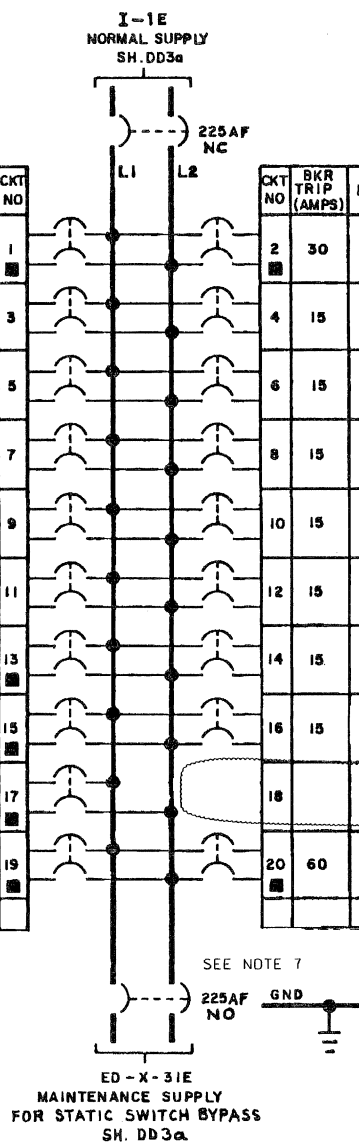
1-NHY-310105 SH. E04a

[illegible]

NUCLEAR SAFETY RELATED
A TRAIN LOAD GROUP

REFERENCE DWG.	DESCRIPTION	LOAD	BKR. TRIP (AMPS)	CKT NO.
310952 SH. EH9 / 1a	CP - 152A BOP INSTRUMENTS	—	30	1
310951 SH. EH9 / 3a	PAM I & COOLING TOWER MONITOR LIGHTS - MCB BF	—	15	3
310107 SH. 5a	125 VDC BUS 11A 1 - SWG - 11A 120 VAC AUX. BUS	—	15	5
SH. EH9b	MCB SETPOINT STATION PWR SUPPLY MCB-SECT. BF	—	15	7
310890 SH. EH9 / 9a	SI ACCUM. TANK ISOL. VLV. POS. IND.	—	15	9
310890 SH. EH9 / 11a	SI & RH SYSTEMS A TRAIN VALVE POSITION INDICATING LIGHTS	—	15	11
SH. DD3a	PP - 11E VITAL INSTR. DISTR. PANEL 11E	—	60	13
M-310966 SH EH9/15a	ISOLATION SYS CONTROL POWER	—	15	15
310857 EH9/17a	DG-1A AIR COOLER COOLANT & JACKET COOLANT TEMP CONT	—	20	17
310952 SH. EH9/19	MM-CP - 297A BOP INSTRUMENTS	—	30	19
	SPACE			

225A, 120VAC, 10, 2W
DISTRIBUTION PANEL **EH9**
CONTROL BLDG., ELEV. 21'-6", COL. 1B



QCT NO	BKR TRIP (AMPS)	LOAD	DESCRIPTION	REFERENCE DWG.
2	30	—	CP-108A SHUTDOWN PANEL	310952 SH. EH9/2
4	15	—	CP-180A RADIATION MONITORING	310956 SH. EH9/4
6	15	—	125VDC BUS 11C 1-SWG-11C 120VAC AUX. BUS	310107 SH. 5a
8	15	—	CP-58 SEISMIC MONITORING	310957 SH. EH9/8
10	15	—	SW A TRAIN AUX. CONTROL	301107 SH. EH9/10a
12	15	—	PP-1E LOSS OF POWER	SH. EH9/12
14	15	—	ED-CP-235 GRD. DETECTION CAB.	SH. EH9/14a
16	15	—	RC VALVES (V-23 V-88) POSITION INDICATORS (FY-2894)	310882 SH. EH9/16
18			SPACE	
20	60	—	ED-PP-12E NON-VITAL INSTR. DISTR. PANEL 12E	SH. DD3a
			SPACE	

NOTES

- 1- ALL BREAKERS ARE THERMAL MAGNETIC EXCEPT
NORMAL SUPPLY BREAKER WHICH IS NON - AUTO.
- 2- ALL BREAKER ARE 100AF UNLESS OTHERWISE NOTED.
- 3- FOR ARRGT. SEE F.P. 33541.
- 4- FOR THREE LINE DIAGRAM SEE SH. DD3a
- 5- ☒ SEE SHEET 3
6. SEE CALCULAITON 9763-3-ED-00-34-F
FOR CIRCUIT LOAD AMPS.
7. MAINTENANCE BREAKER INSTANTANEOUS
ADJUSTABLE TRIP SET AT MINIMUM

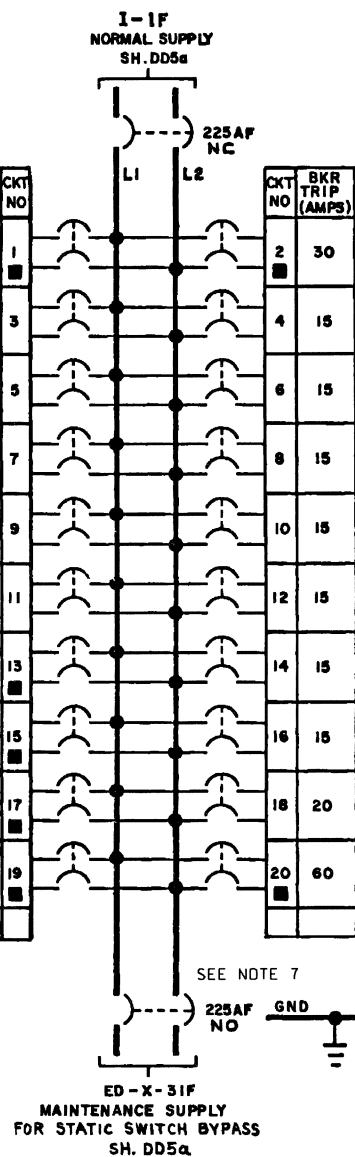
1-NHY-3101.05 SH.EH9a

[illegible]

**NUCLEAR SAFETY RELATED
B TRAIN LOAD GROUP**

[illegible]

225A, 120VAC, 10, 2W
DISTRIBUTION PANEL 
CONTROL BLDG., ELEV. 21'-6", COL. 2D



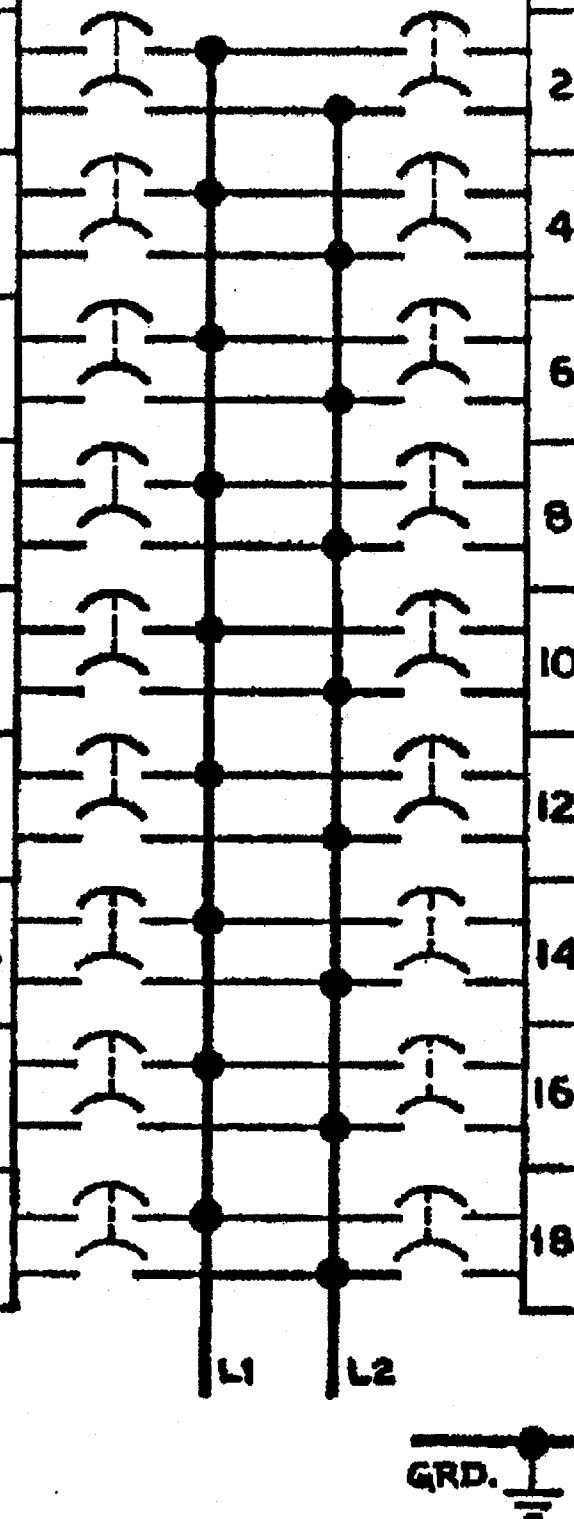
NOTES

- 1- ALL BREAKERS ARE THERMAL MAGNETIC EXCEPT
NORMAL SUPPLY BREAKER WHICH IS NON - AUTO.
- 2- ALL BREAKER ARE 100AF UNLESS OTHERWISE NOTED.
- 3- FOR ARROT. SEE F.P., 33542.
- 4- FOR THREE LINE DIAGRAM SEE SH. DD5e
- 5- ■ SEE SHEET 3
6. SEE CALCULATION 9763-3-ED-00-34-F
FOR CIRCUIT LOAD AMPS.
7. MAINTENANCE BREAKER INSTANTANEOUS
ADJUSTABLE TRIP SET AT MINIMUM

1-NHY-310105 SH.EH0a

[illegible]

REFERENCE DWG	DESCRIPTION	LOAD	BKR TRIP (AMPS)	CKT NR	CKT NR	BKR TRIP (AMPS)	LOAD	DESCRIPTION	REFERENCE DWG
310956 SH-EIS/1	RM-RM-6506A EAST AIR INTAKE RADIATION MONITOR	—	15	1	2	15	—	RM-RM-6507A WEST AIR INTAKE RADIATION MONITOR	310956 SH-EIS/2
310956 SH-EIS/3	RM-RM-6535A CNTMNT MANIPULATOR CRANE RADIATION MONITOR	—	15	3	4	15	—	MM-CP-108A REMOTE SHUTDOWN PNL. RECORDERS PWR. SUPPLY	310952 SH-EIS/4
310956 SH-EIS/5	RM-RM-6576A CONTAINMENT POST LOCA RADIATION MONITOR	—	15	5	6	15	—	DAN SYSTEM DAMPER DP-16A CONTROL	310928 SH-EIS/6a
310841 SH-EIS/7	MS ISOLATION VALVE V86 & V92	—	30A	7	8	15	—	C&C-CP-173 H ₂ ANALYZER CONTROL PNL.	310897 SH-EIS/8
310841 SH-EIS/9	MS ISOLATION VALVE V88 & V90	—	30A	9	10	15	—	RM-RM-6527A CNTMNT. ON-LINE PURGE RADIATION MONITOR	310956 SH-EIS/10
310965 SH-EIS/11	RVLIS/HELB LOOP A PLASMA DISPLAY SYSTEM	—	15	11	12	15	—	LOSS OF POWER	SH-EIS/12
310943 SH-EIS/13	NI-NT-6690 EX-CORE NEUTRON FLUX MONITORING SYSTEM	—	15	13	14	15	—	NI-NM-6690 EX-CORE NEUTRON FLUX MONITORING SYSTEM	310943 SH-EIS/13
310943 SH-EIS/13	NI-NM-6690J EX-CORE NEUTRON FLUX MONITORING SYSTEM	—	15	15	16	15	—	NI-NM-31G BORON DILUTION MONITOR TRAIN 'A'	310943 SH-FC6b
310965 SH-EIS/17	RVLIS/HELB CONTROL CABINET POWER SUPPLY	—	15	17	18	15	—	RVLIS/HELB LOOP A PLASMA DISPLAY SYSTEM	310965 SH-EIS/11



100A, 120VAC, 1Ø, 2W
DISTRIBUTION PANEL
(EIS)
CONTROL BLDG, ELEV. 21' 6", COL. B-1

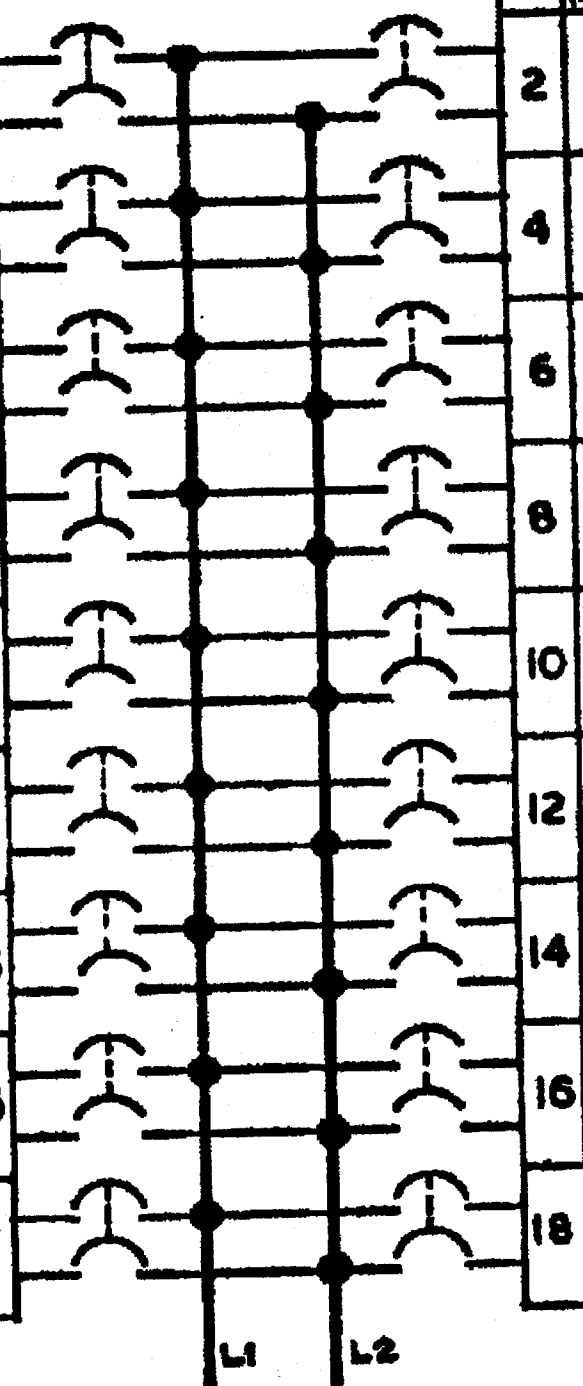
NOTE:

1. FOR THREE LINE DIAGRAM
SEE SH.DD3a
2. FOR ARRGT. SEE FP-32667
3. SEE CALCULATION 9763-3-ED-00-34-F
FOR CIRCUIT LOAD AMPS.

1-NHY-310105 SH. E1Sa

[illegible]

REFERENCE DWG	DESCRIPTION	LOAD	BKR TRIP (AMPS)	CKT NO
310956 SH-EIT/1	RM-RM-6506B EAST AIR INTAKE RADIATION MONITOR	—	15	1
310956 SH-EIT/3	RM-RM-6535-B CONTMNT MANIPULATOR CRANE RADIATION MONITOR	—	15	3
310956 SH-EIT/5	RM-RM-6576-B CONTAINMENT POST LOCA RADIATION MONITOR	—	15	5
310841 SH-EIT/7	MS ISOLATION VALVES V86 & V92	—	30	7
310841 SH-EIT/9	MS ISOLATION VALVES V88 & V90	—	30	9
310182 SH-EIT/11a	ANNUNCIATORS MM-UA-51 & 55	—	15	11
310943 SH-EIT/13	NI-NT-6691 EX-CORE NEUTRON FLUX MONITORING SYS	—	15	13
310943 SH-EIT/15	NI-NM-6691 J EX-CORE NEUTRON FLUX MONITORING SYS	—	15	15
310965 SH-EIT/17	RVLIS/HELB CONTROL CABINET POWER SUPPLY	—	15	17



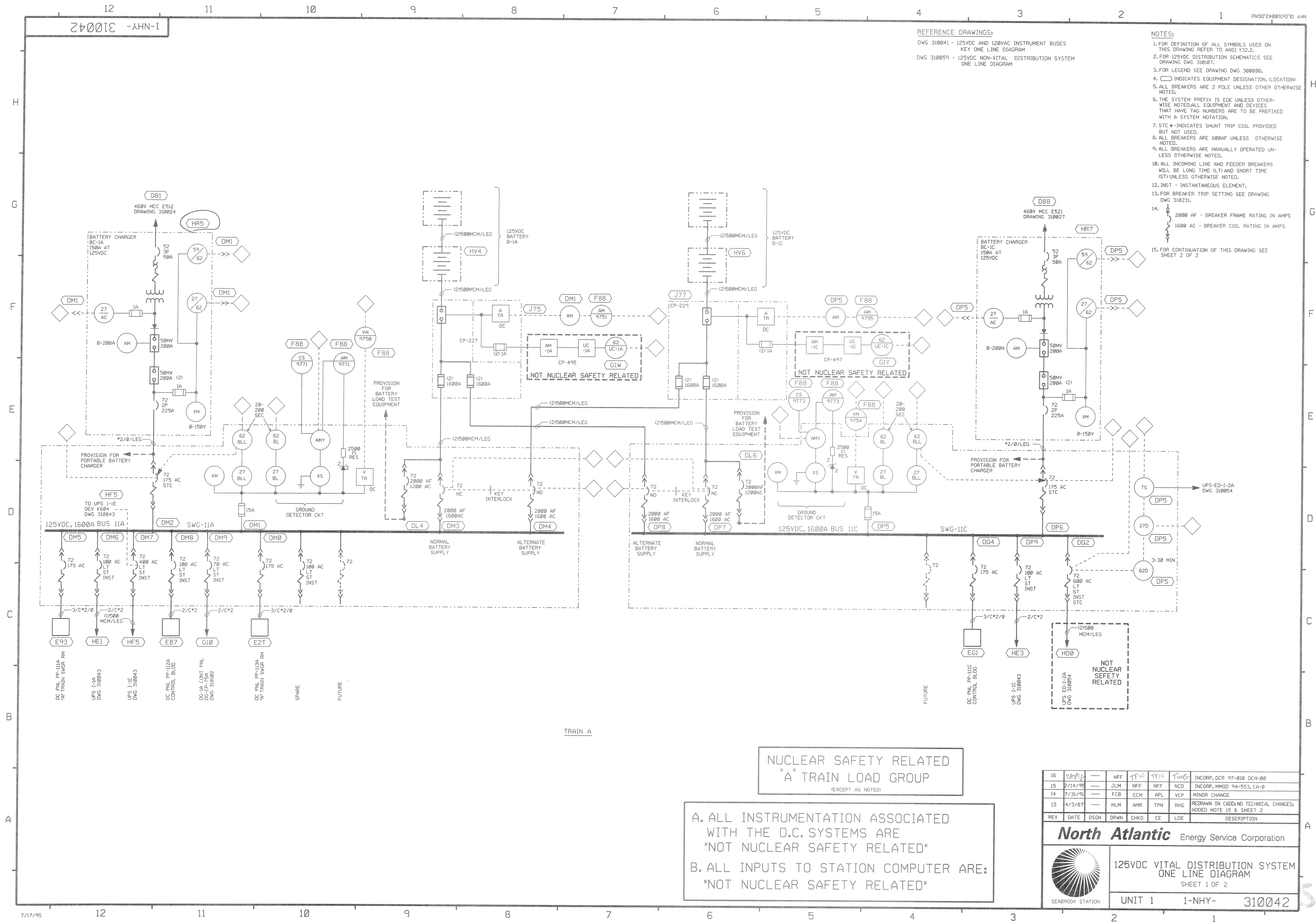
CKT N ^o	BKR TRIP (AMPS)	LOAD	DESCRIPTION	REFERENCE DWG
2	15	—	RM-RM-650T-8 WEST AIR INTAKE RADIATION MONITOR	310986 SH-EIT/8
4	15	—	MM-CP-108B SAFE SHUTDOWN PANEL RECORDERS PWR. SUPPLY	310952 SH-EIT/4
6	15	—	DAH SYSTEM DAMPER DP-16B CONTROL	310928 SH-EIT/6a
8	15	—	CGC-CP-174 H ₂ ANALYZER CONTROL PHL.	310897 SH-EIT/8
10	15	—	RM-RM-6527B CONTIN. ON-LINE PURGE RADIATION MONITOR	310956 SH-EIT/10
12	15	—	LOSS OF POWER	SH-EIT/12
14	15	—	NI-NM-6691 EX-CORE NEUTRON FLUX MONITORING SYS	310943 SH-EIT/13
16	15	—	NI-NM-32G BORON DILUTION MONITOR TRAIN 'B'	310943 SH-FGTB
18	15	—	SPARE	—

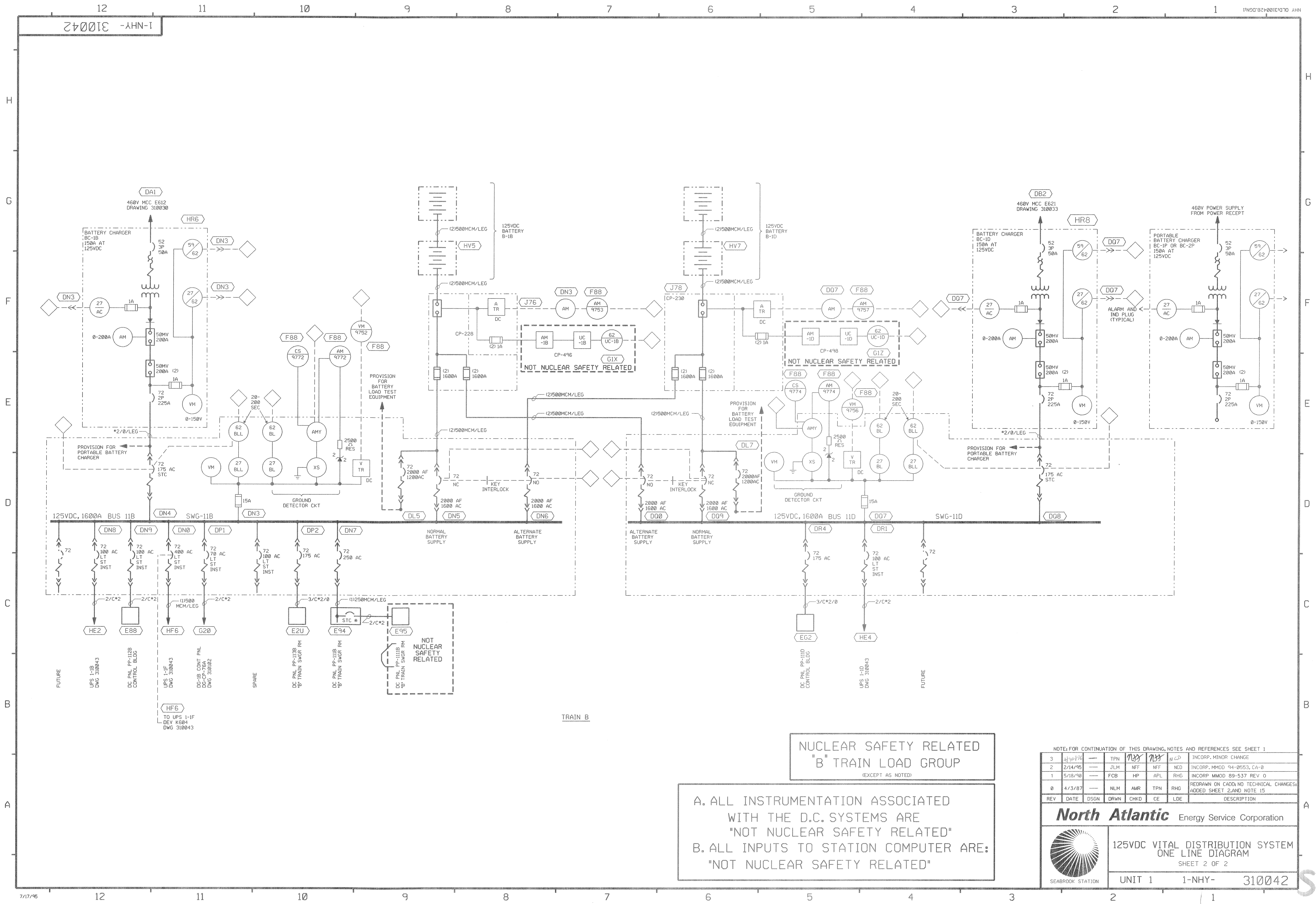
100A, 120VAC, 1Ø, 2W
DISTRIBUTION PANEL
EIT
CONTROL BLDG, ELEV. 21' 6", COL D-2

NOTES

- NOTES
1. FOR THREE LINE DIAGRAM
SEE 3H:DD5a
 2. FOR ARMGT. SEE FF-32668
 3. SEE CALCULATION 9763-3-ED-00-34-F
FOR CIRCUIT LOAD AMPS

1-NHY-310105 SH E1Ta





NUCLEAR SAFETY RELATED
"B" TRAIN LOAD GROUP
(EXCEPT AS NOTED)

A. ALL INSTRUMENTATION ASSOCIATED
WITH THE D.C. SYSTEMS ARE
"NOT NUCLEAR SAFETY RELATED"

B. ALL INPUTS TO STATION COMPUTER ARE:
"NOT NUCLEAR SAFETY RELATED"

NOTE: FOR CONTINUATION OF THIS DRAWING, NOTES AND REFERENCES SEE SHEET 1

3	4/30/96	TPN	NFF	NFF	NCD	INCORP. MINOR CHANGE	
2	2/14/95	JLM	NFF	NFF	NCD	INCORP. MMOD 94-0553, CA-0	
1	5/18/90	FCB	HP	APL	RHG	INCORP. MMOD 89-537 REV. 0	
0	4/3/87	NLM	AMR	TPN	RHG	REDRAWN ON CADD; NO TECHNICAL CHANGES; ADDED SHEET 2 AND NOTE 15	
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

North Atlantic

Energy Service Corporation

SEABROOK STATION

125VDC VITAL DISTRIBUTION SYSTEM
ONE LINE DIAGRAM

SHEET 2 OF 2

UNIT 1

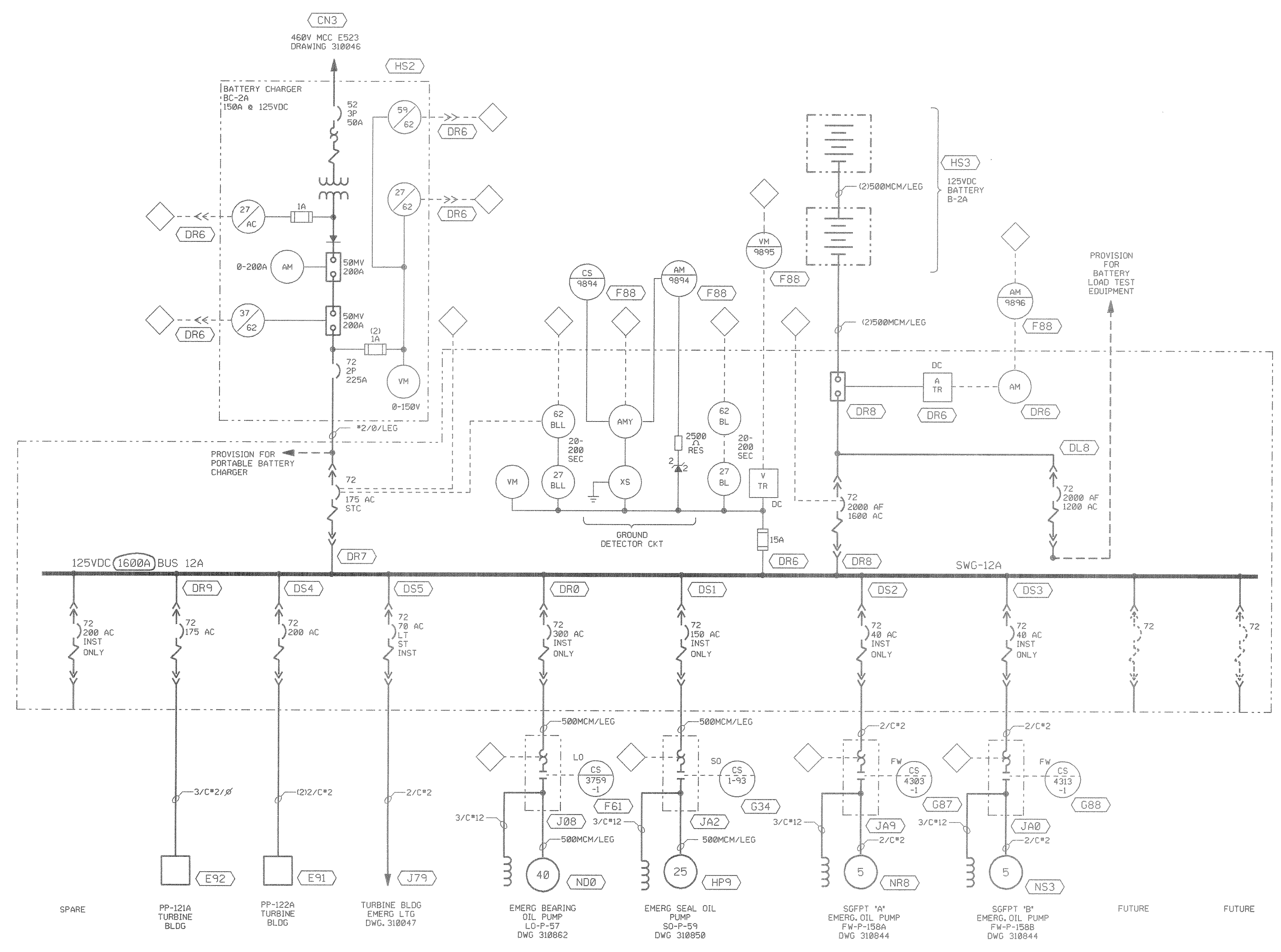
1-NHY-

310042

690013 -AHN-I

REFERENCE DRAWINGS:
DWG 310041 - 125 VDC AND 120 VAC INSTRUMENT BUSES
KEY ONE LINE DIAGRAM
DWG 310042 - 125 VDC VITAL DISTRIBUTION SYSTEM
ONE LINE DIAGRAM

- NOTES:
1. FOR DEFINITION OF ALL SYMBOLS USED ON THIS DRAWING REFER TO ANSI Y32.2.
 2. FOR 125VDC DISTRIBUTION SCHEMATICS SEE DRAWING 310107.
 3. FOR LEGEND SEE DRAWING 300006.
 4. INDICATES EQUIPMENT DESIGNATION (LOCATION).
 5. ALL BREAKERS ARE 2 POLE UNLESS OTHERWISE NOTED.
 6. THE SYSTEM PREFIX IS ED UNLESS OTHERWISE NOTED. ALL EQUIPMENT AND DEVICES THAT HAVE TAG NUMBERS ARE TO BE PREFIXED WITH A SYSTEM NOTATION.
 7. STC - INDICATES SHUNT TRIP COIL.
 8. ALL BREAKERS ARE 800AF UNLESS OTHERWISE NOTED.
 9. ALL BREAKERS ARE MANUALLY OPERATED UNLESS OTHERWISE NOTED.
 10. ALL INCOMING LINE AND FEEDER BREAKERS WILL BE LONG TIME (LT) AND SHORT TIME (ST) UNLESS OTHERWISE NOTED.
 12. INST - INSTANTANEOUS ELEMENT.
 13. FOR BREAKER TRIP SETTING SEE DRAWING DWG 310231.
 14. 2000 AF - BREAKER FRAME RATING IN AMPS
 1600 AC - BREAKER COIL RATING IN AMPS



10	2/2/88	—	NFF	TPN	TPN	TWG	INCCORP. OCR 97-010, DCN-00
9	6/29/87	—	LP	APL	TPN	RHG	INCCORP. ECA 03/1105900 & HP9 HP REV. DUE TO ERROR IN CONVERSION.
8	4/3/87	—	NLM	AMR	TPN	RHG	REDRAWN ON CADD; NO TECHNICAL CHANGES. ADDED NOTE 15 TO SHEET 1 OF 2. AND ADDED SHEET 2.
REV	DATE	DSGN	DRWN	CHKD	CE	LOE	DESCRIPTION
							125VDC NON VITAL DISTRIBUTION SYSTEM ONE LINE DIAGRAM SHEET 1 OF 2
SEABROOK STATION							UNIT 1 1-NHY- 310059



PP-121B
NON-ESS SWGR RM

UPS I-4
DWG 310054

UPS I-2B
DWG 310054

FUTURE

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
1	3/4/87	---	NFF	TPN	TPN	TWG	INCORP. DCR 97-010, DCN-00
0	4/3/87	---	NLM	AMR	TPN	RHG	REDRAWN ON CADD; NO TECHNICAL CHANGES ADDED NOTE 15 TO SHEET 1 OF 2. AND ADDED SHEET 2



125VDC NON VITAL
DISTRIBUTION SYSTEM
ONE LINE DIAGRAM
SHEET 2 OF 2

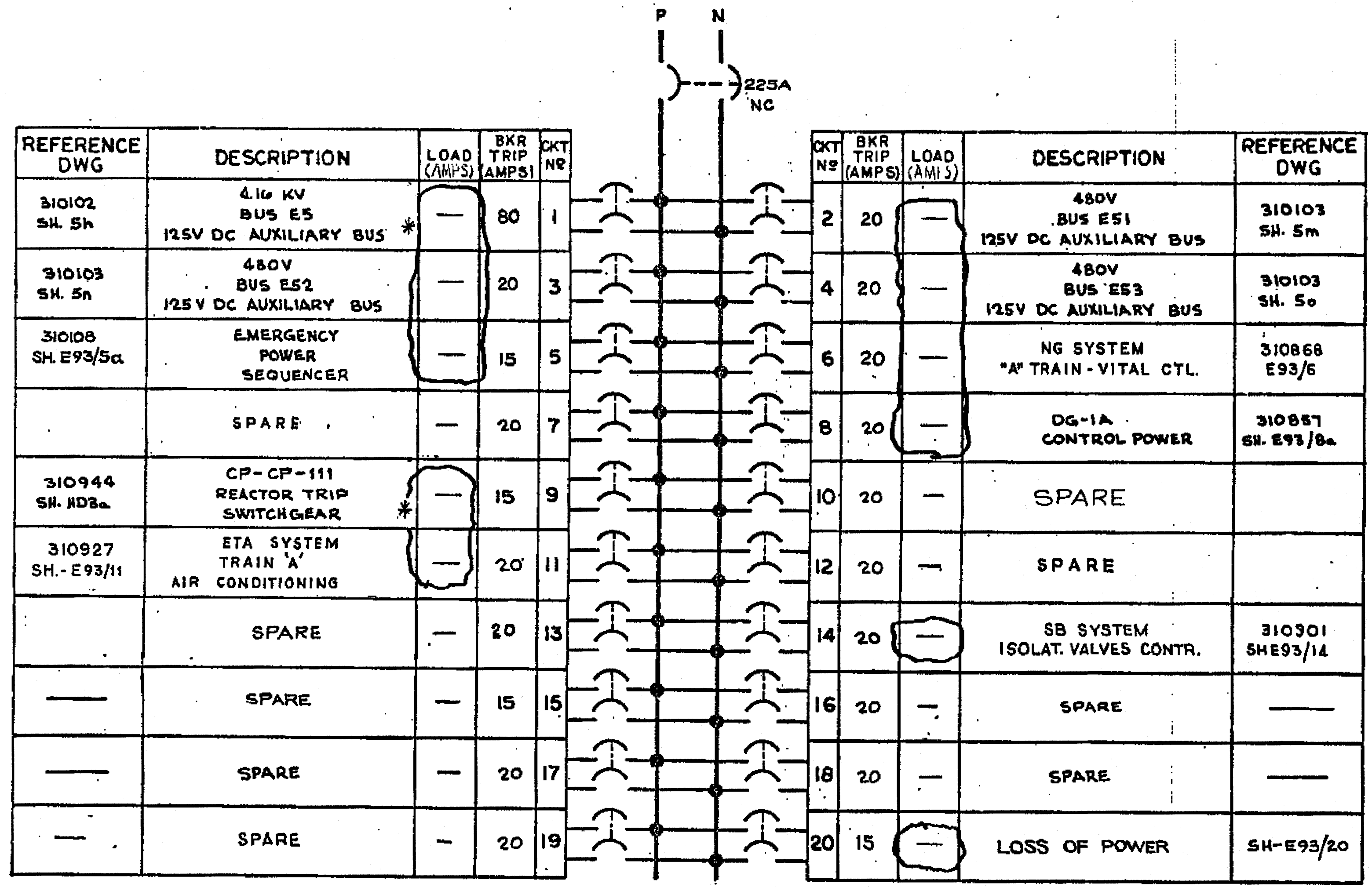
UNIT 1	1-NHY-	310059
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5	5-3184 REV. PER ECA 54/5788 B, DCN 65/0238A, DCN 63/0079A	FL	REV DATE	9/11/84	RRP COM	9763-M-310107 SH.E93a SUPERCEDES UE&C DWG.
6	5-3085 REV. PER ECA 03/104504 B, 03/104201 C, 03/108202 A & 99/108088 B	E.G.	10/11/88	HP	ADL	INCORP DCR 88-125, CA-61
7	2-2486 REV PER ECA 03/1804133B	AFB	11/15/93	TRN	7/37	INCORP MADD 92-517 CA-1
8	5-986 REV PER ECA-03/114694B NCR 82/1360B	AFB	4-19/94	PMC	CA79	INCORP DCR 99-002 DCN 00

4	2-984 65/0120B	CMT 19 MADE SPARE PER DCN	OK	125V DC BUS I-SWG-11A DISTR PANEL I-PP-111A SCHEDULE SH.90 PUBLIC SERVICE CO. OF NEW HAMPSHIRE SEABOARD STATION
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1-NHY- 310107 SH.E93a

NUCLEAR SAFETY RELATED
'A' TRAIN LOAD GROUP



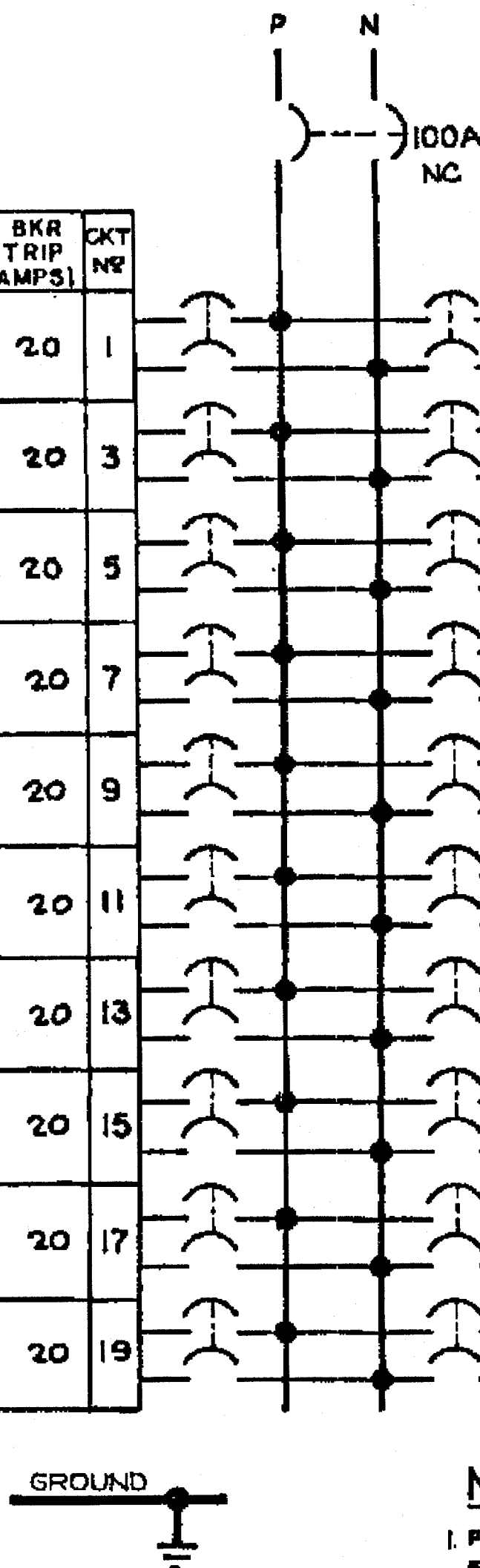
225A, 125V DC, 2W
DISTRIBUTION PANEL
(E93)
CONTROL BLDG. EL. 2'-6" COL. 3B
*-ONE MINUTE LOAD

- NOTES:**
1. FOR THREE LINE DIAGRAM SEE SH. DB10.
 2. FOR ARRGT SEE RP 31883
 3. ALL BREAKERS ARE THERMAL-MAGNETIC EXCEPT MAIN BREAKER WHICH IS NON-AUTO.
 4. SEE CALCULATION 9763-3-ED-00-14-F FOR CIRCUIT LOAD AMPS.

[illegible]

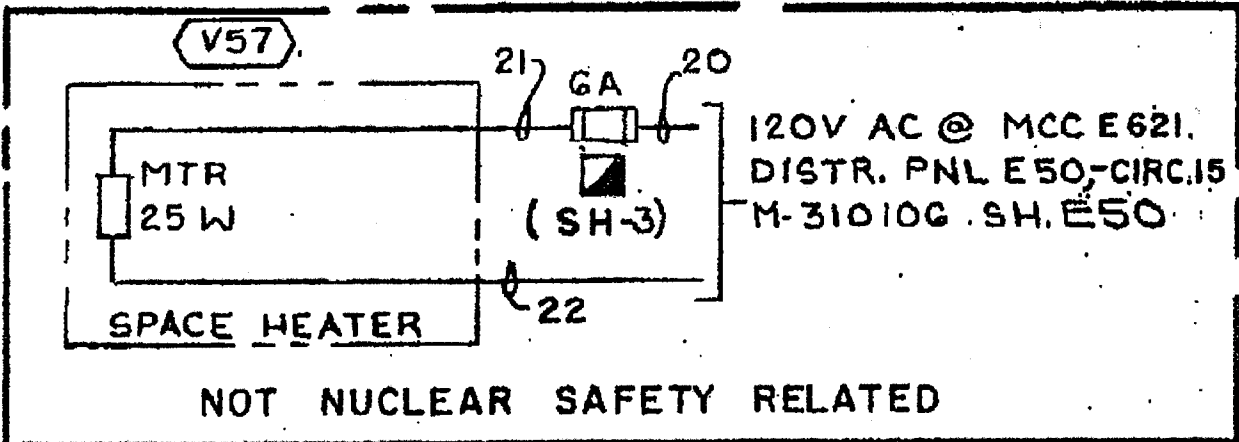
NUCLEAR SAFETY RELATED
"A" TRAIN LOAD GROUP

100A,125V DC,2W
DISTRIBUTION PANEL
(E87)
CONTROL BLDG. EL. 21'-6" COL. 2B



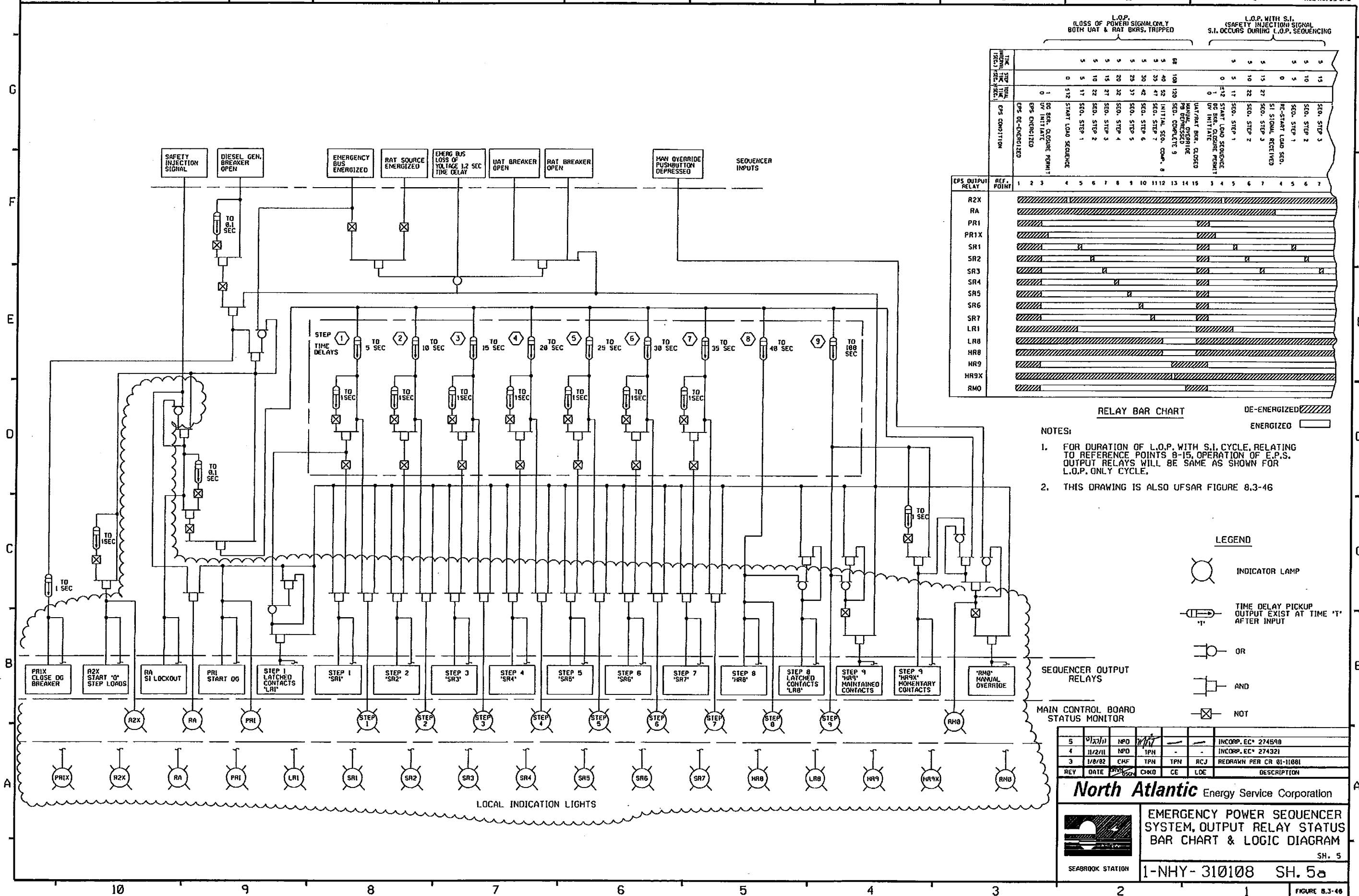
- # NOTES:
1. FOR THREE LINE DIAGRAM
SEE SH. DB1a.
 2. FOR ARRST SEE FP 31878
 3. ALL BREAKERS ARE THERMAL-MAGNETIC
EXCEPT MAIN BREAKER WHICH IS NON-AUTO.
 4. TYPE ED-FRAME CAN NOT BE USED TO REPLACE
E-FRAME BRANCH BREAKERS IN THIS PANEL
 5. SEE CALCULATION 9763-3-ED-00-14-F
FOR CIRCUIT LOAD AMPS.

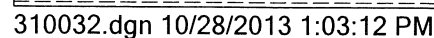
1-NHY-310107 SH.E87a

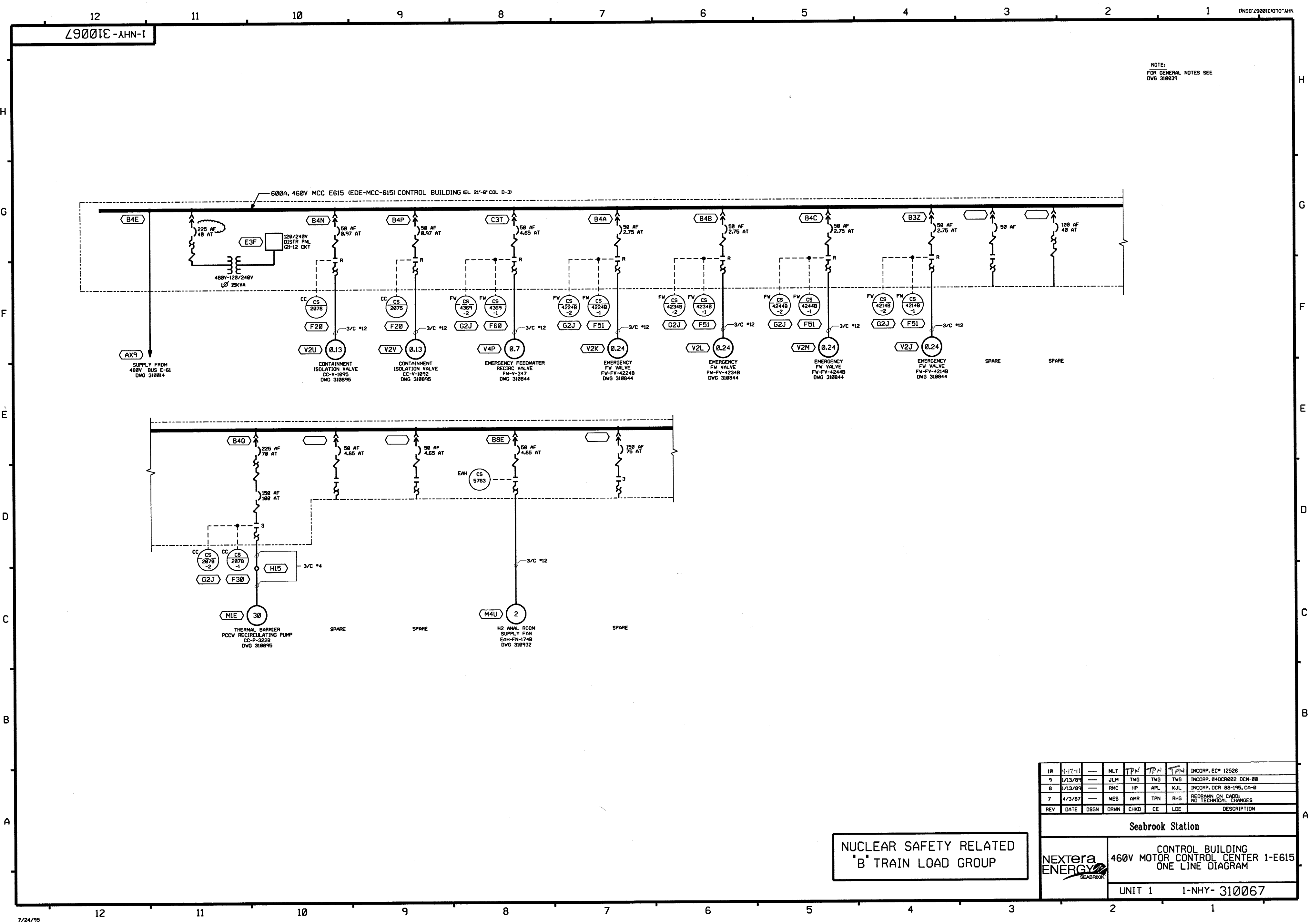


1-NHY- 310890 SH-B43a

[illegible]



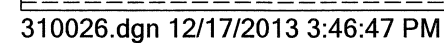


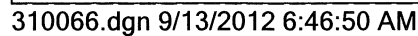


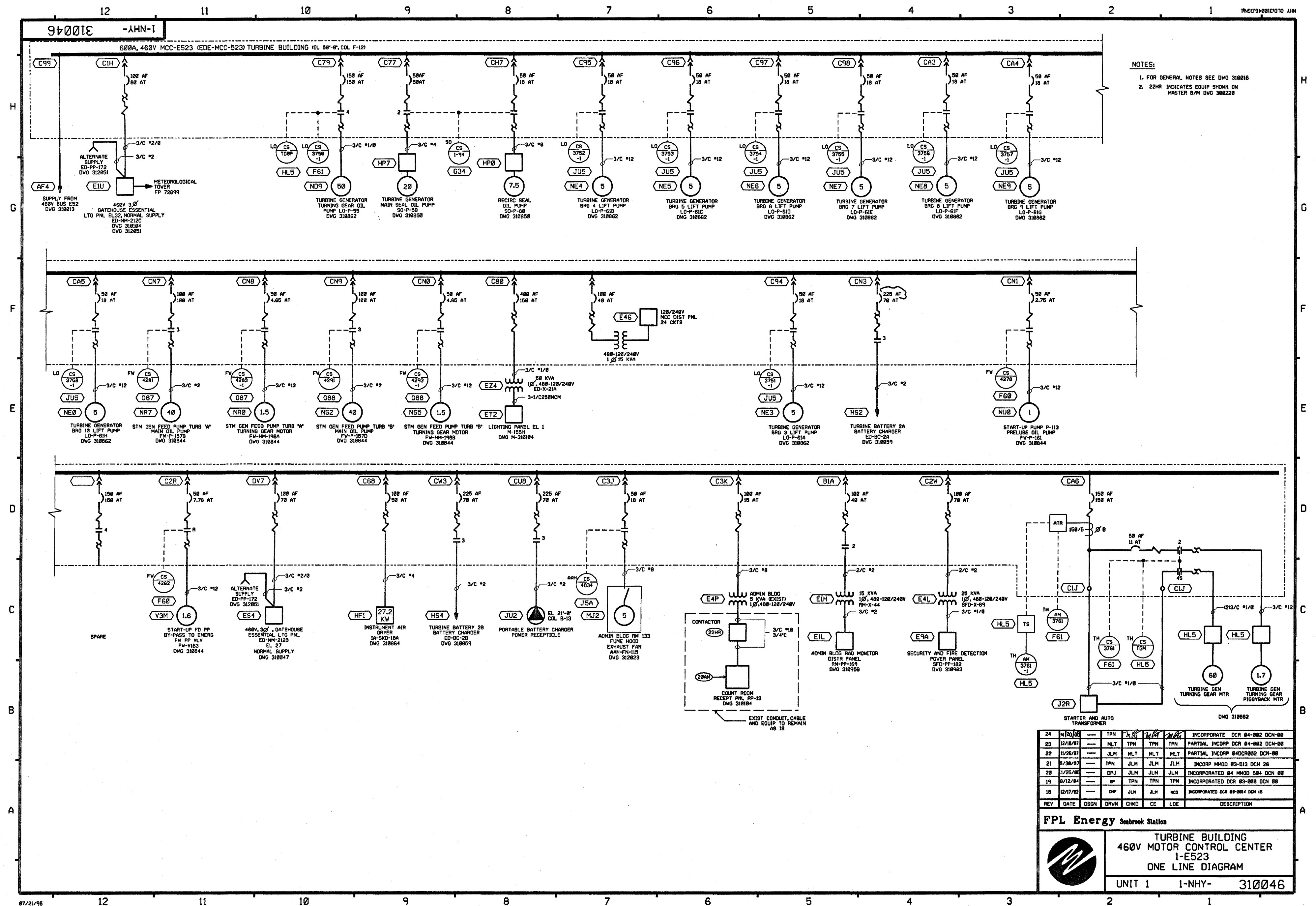
NOTE:
FOR GENERAL NOTES SEE
DWG 310839

10	4-17-81	---	MLT	TPN	TPN	TPN	INCORP. EC* 12526
9	1/13/89	---	JLM	TWG	TWG	TWG	INCORP. 04DCR002 DCN-00
8	1/13/89	---	RMC	HP	APL	KJL	INCORP. DCR 88-195, CA-0
7	4/3/87	---	WES	AMR	TPN	RHG	REDRAWN ON CADD; NO TECHNICAL CHANGES
REV	DATE	DSGN	DRWN	CHKD	CE	LOE	DESCRIPTION
Seabrook Station							
NEXTERA ENERGY		CONTROL BUILDING 460V MOTOR CONTROL CENTER 1-E615 ONE LINE DIAGRAM					
SEABROOK		UNIT 1 1-NHY- 310067					

NUCLEAR SAFETY RELATED
'B' TRAIN LOAD GROUP





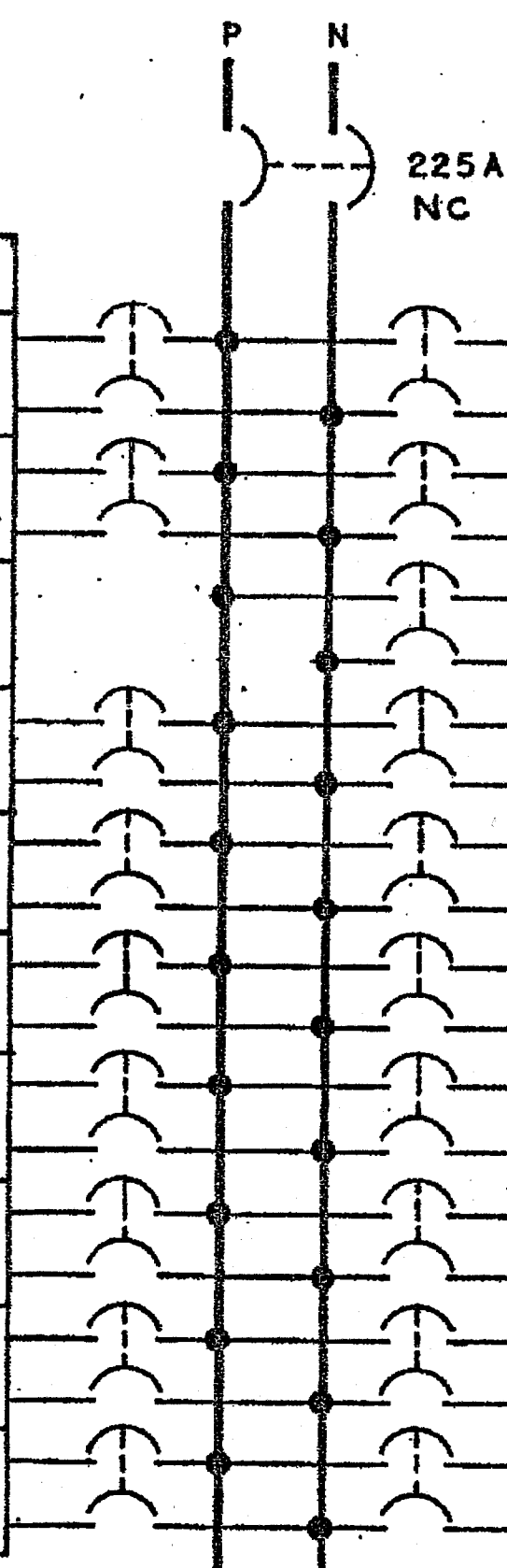


SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 USC SECTION 552(b)(4) AND 5 USC SECTION 552(b)(7)(F)

REV	DATE	DRWN	CHKD	DESCRIPTION	REV	DATE	DESCRIPTION	DWN.	BY	CKD.	BY	1-NHY-310107 SH. EGIa
8	4-1-79	DMC	DMH	INCORP DCR 99-002 DCMO								
7	4/15/80	TPN	TPN	INCORP MMOD 92-517 CA-1	3	8-30-85	REV. PER ECA 03/101312B	EG	EG			125V DC BUS 1-SWG-11C
6	12-5-80	HP	APL	INCORP MMOD 89-605 CA-0	2	5-31-84	REV. PER DCN 63/0079A	FL	FL			DISTR. PNL. 1-PP-111C
5	11/1/80	HP	APL	INCORP 88-125, CA-0	1	4-30-82	ADDED FP REFERENCE	NP	NP			SCHEDULE SH. 168
4	11/1/80	RRP	CCM	9763-M-310107 SH. EGIa SUPERCEDES UE&C DWG:	0	11/2/81	FIRST ISSUE DCN 03/1016B	NP	NP			New Hampshire Yankee Seabrook Station

NUCLEAR SAFETY RELATED
A. TRAIN LOAD GROUP

REFERENCE DWG	DESCRIPTION	AMPS LOAD	BKR TRIP	CKT NO.
—	SPARE	—	20	1
—	SPARE	—	20	3
—	SPACE	—		5
—	SPARE	—	20	7
—	SPARE	—	20	9
M-310882 SH. A091	REACTOR COOLANT PUMP RC-P-1C UNDERVOLTAGE & UNDERFREQUENCY CKT	—	20	11
—	SPARE	—	20	13
—	SPARE	—	20	15
—	SPARE	—	15	17
—	SPARE	—	15	19



CKT NO.	BKR TRIP	AMPS LOAD	DESCRIPTION	REFERENCE DWG
2	20	—	SPARE	—
4	20	—	SPARE	—
6	30	—	SPARE	—
8	20	—	SPARE	—
10	20	—	SPARE	—
12	20	—	SPARE	—
14	20	—	SPARE	—
16	20	—	SPARE	—
18	15	—	SPARE	—
20	15	—	LOSS OF POWER	SH. EGI/20

225A, 125V DC, 2W
DISTRIBUTION PANEL

EGI
CONTROL BLDG. EL. 21'-6" COL. A-2

NOTES:

- FOR THREE LINE DIAGRAM SEE SH. D88a.
- FOR ARR'G'MT. SEE FP-33145
- SEE SH. 3
- ALL BREAKERS ARE THERMAL-MAGNETIC EXCEPT MAIN BREAKER WHICH IS NON-AUTO.
- SEE CALCULATION 9763-3-ED-00-14-F FOR CIRCUIT LOAD AMPS.

1-NHY-310107 SH. EGIa

5

225A, 125V DC 2W ECD 23/11/3122E

REV

DATE

DRWN

CHKD

DESCRIPTION

10

4/1/79

RMC

INCORP DCK-99 002 DCA000

9

1/8/94

SAC

INCORP DCK-94-045 REV 0

8

4/15/93

TPN

INCORP MOD 92-517 CA-1

12

2/27/06

JLM

REF. CR 06-03171

11

6/11/06

JLM

INCORP DCR 00-020 DCN-00

1-NHY-310107 SH E2T_a

New Hampshire Yankee

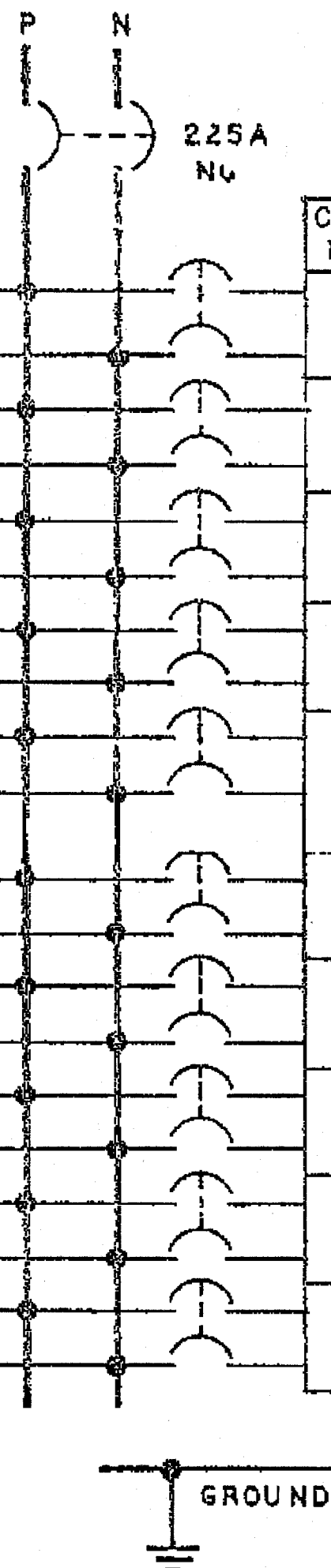
Seabrook Station

125V DC BUS 1-SMG-11A

DISTR PNL 1-PP-113A

SCHEDULE SH 74

REFERENCE DWG	DESCRIPTION	AMPS LOAD	BKR TRIP	CKT NO	CKT NO	BKR TRIP	AMPS LOAD	DESCRIPTION	REFERENCE DWG
M-301107 SH-E2T/1a	SW SYSTEM SW PUMP PERMISSIVE TRAIN A (RV-54)	—	20	1	2	20	—	SW SYSTEM TRAIN-A SW VALVE (SW-V16)	M-301107 SH-E2T/2a
M-310895 SH-E2T/3a	CC SYSTEM HX-E17A TEMP CTL VLV's CC TV-2171-1 & 2	—	20	3	4	20	—	CC SYSTEM LP-A INBD RET & SUPPLY ISO VLV's CC-V121 & V57	M-310895 SH-E2T/4a
	SPARE	—	20	5	6	20	—	CC SYSTEM LP B OUTBD SUPPLY & RET ISO VLV's CC-V175 & V257	M-310895 SH-E2T/6a
M-310890 SH-E2T/7a	SI SYSTEM SI-FV-2482, 83, 95 & FV 2496	—	20	7	8	20	—	MS SYSTEM ATMOS RELIEF VALVE MS-FV-3001	M-310841 SH-E2T/8a
M-310895 SH-E2T/9a	CC SYS-PCCW LOOP A LIQUID RADIATION MON'T'R SAMPLE VALVES V-975 & V-1298	—	20	9	10	20	—	MS SYSTEM ATMOS RELIEF VALVE MS-FV-3003	M-310841 SH-E2T/10a
M-310882 SH-A051	REACTOR COOLANT PUMP RC P 1A UNDERVOLTAGE & UNDERFREQUENCY CKT	—	20	11	12	20	—	MS SYSTEM MAIN STM ISO VALVE MS-V-88	M-310841 SH-E2T/12a
	SPARE	—	20	13	14	20	—	MS-SYSTEM MAIN STEAM ISO VALVE MS-V-90	M-310841 SH-E2T/14a
M-310841 SH-E2T/15	MS SYSTEM ATMOS RELIEF VLV MS-PV-3002	—	20	15	16	20	—	MS SYSTEM ATMOS RELIEF VLV MS-PV-3004	M-310841 SH-E2T/16
	SPARE	—	20	17	18	20	—	SPARE	
	SPARE	—	20	19	20	15	—	LOSS OF POWER	SH-E2T/20



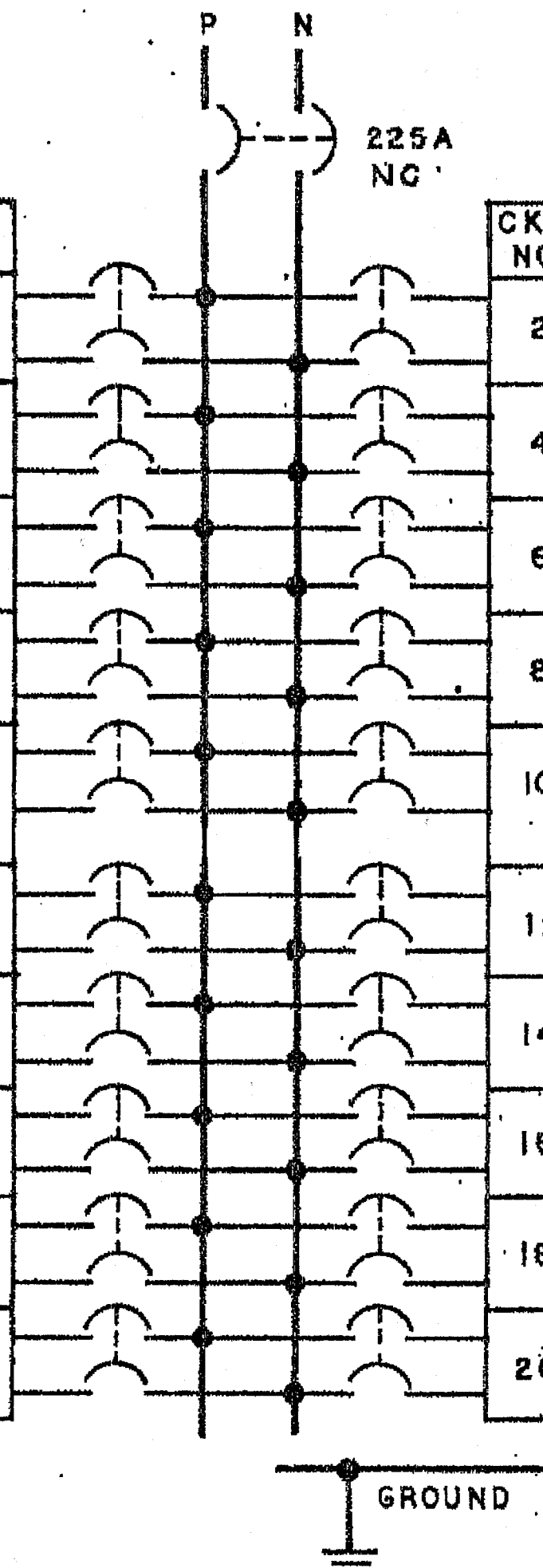
NOTES

- 1 FOR THREE LINE DIAGRAM SEE SH 081b
- 2 FOR ARR'G'MT SEE FP-33307
- 3 ALL BREAKERS ARE THERMAL-MAGNETIC EXCEPT MAIN BREAKER WHICH IS NON AUTO
- 4 SEE CALCULATION 9763-3-ED-00-14-F FOR CIRCUIT LOAD AMPS

1-NHY-310107 SH E2T_a

9	4/15/93	TPN	1/93	INCORP M MOD 92-517, CA-1	4	1-23-86	REV PER ECA 03/11/08/10B	LW/	25%
8	11/1/88	HP	APL	INCORP DCR 88-125, CA-01	3	8-30-85	REV. PER ECA 99/103998B	EG	0%
7	9/15/87	NFT	APL	INCORPORATE AS-BUILT COMMENTS	2	5-31-84	REV. PER DCN 83/0079A	FL	0%
6	12/1/86	RKP	CCM	9763-M-310107 SH-E2Ua SUPERCEDES UE&C DWG.	11	6/8/86	INCORP DCR 00-020 DCN-00	JLM	0%
5	12/24/86	REV PER ECA 03/11/122E	DESCRIPTION	REV. DATE	DESCRIPTION	DWN. BY	CHKD. BY	1-NHY- 310107 SH-E2Ua	

REFERENCE DWG	DESCRIPTION	AMPS LOAD	BKR TRIP	CKT NO.
M-301107 SH-E2U/1a	SW SYSTEM SW PUMP PERMISSIVE TRAIN-B (RV-25)	—	20	1
M-310895 SH-E2U/3a	CC SYSTEM HX E17B TEMP. CTL. VLV'S. CC-TV-2271-1&2	—	20	3
	SPARE	—	20	5
M-310890 SH-E2U/7a	SI SYSTEM SI-FV-2475, 76, 77 & FV-2486	—	20	7
M-310895 SH-E2U/9a	CC SYS - PCCW LOOP-B LIQUID RADIATION MONT'R. SAMPLE VAVLES V-986 & V-1301	—	20	9
M-310882 SH-A201	REACTOR COOLANT PUMP RC-P-1B UNDERVOLTAGE & UNDERFREQUENCY CKT	—	20	11
M-310895 SH-E2U/3a	CC SYSTEM HX E17B TEMP. CTL. VLV'S CC-TV-2271-1&2	—	20	13
M-310841 SH-E2U/15a	MS SYSTEM ATMOS. RELIEF VLV. MS-PV-3001	—	20	15
	SPARE	—	20	17
	SPARE	—	20	19



CKT NO.	BKR TRIP	AMPS LOAD	DESCRIPTION	REFERENCE DWG
2	20	—	SW SYSTEM TRAIN-B SW VALVE (SW-V18)	M-301107 SH-E2U/2a
4	20	—	LOOP-B CNTMNT. STRUCT. RTN. & SUPPLY ISOL. VLV'S. CC-V256 & V176	M-310895 SH-E2U/4a
6	20	—	LOOP-A CNTMNT. STRUCT. RTN. & SUPPLY ISOL. VLV'S. CC-V122 & V168	M-310895 SH-E2U/6a
8	20	—	MS SYSTEM ATMOS. RELIEF VLV. MS-PV-3002	M-310841 SH-E2U/8a
10	20	—	MS SYSTEM ATMOS. RELIEF VLV. MS-PV-3004	M-310841 SH-E2U/10a
12	20	—	MS SYSTEM MAIN STM. ISO. VALVE MS-V-88	M-310841 SH-E2U/12a
14	20	—	MS SYSTEM MAIN STM ISO VLV MS-V-90	M-310841 SH-E2U/14a
16	20	—	MS SYSTEM ATMOS RELIEF VLV. MS-PV-3003	M-310841 SH-E2U/16a
18	20	—	SPARE	
20	15	—	LOSS OF POWER	SH-E2U/20

225A, 125V DC, 2W
DISTRIBUTION PANEL

(E2U)

CONTROL BLDG. EL. 21'-6" COL.

NOTES:

1. FOR THREE LINE DIAGRAM SEE SH. DA1B
2. FOR ARR'G'MT. SEE FP-33309
3. ALL BREAKERS ARE THERMAL-MAGNETIC EXCEPT MAIN BREAKER WHICH IS NON-AUTO.
4. SEE CALCULATION 9763-3-ED-00-14-F FOR CIRCUIT LOAD AMPS.

1-NHY- 310107 SH-E2Ua